

MINI PRINTER



Line Thermal Printers

Impact Dot Matrix Printers

Line Thermal Kiosk Units

Line Thermal Printer Mechanisms

Impact Dot Matrix Printer Mechanisms

Leading Technology for Humanity

Determined to develop as a corporation that offers new value for everyone everywhere through high-quality products and services . . .

. . . Citizen Systems is reinventing itself.

“Leading Technology for Humanity”

— Our corporate slogan expresses the aspirations of every Citizen Systems employee, each of whom is striving to realize a shared ideal.

We have superior miniaturization and refinement technologies cultivated by members of the Citizen Group.

We have a desire to design products that are easy for anyone to use.

And we have the skills required to pursue quality at every turn, combined with an unswerving commitment to manufacturing.

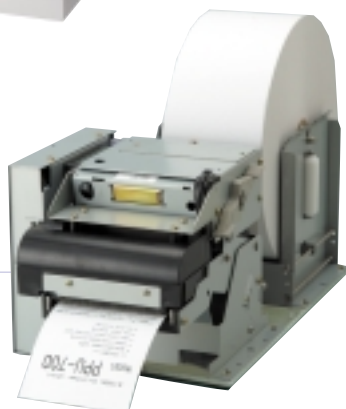
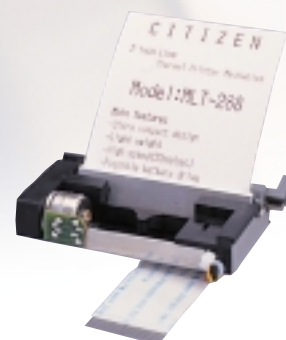
We draw on these strengths to manufacture more advanced products for a wide range of fields, including health information management, information/entertainment and business information equipment.

Our aim is to achieve advances in convenience, enabling people to lead more abundant and comfortable lives anytime and anywhere — and to disseminate people-friendly technologies and services that help individuals lead healthier, more fulfilling lives.

“Leading Technology for Humanity”

— We continue to take up new challenges with an eye on our customers and with these words in mind.

CITIZEN SYSTEMS JAPAN CO., LTD.



A full range of compact high-performance printers designed to satisfy your most rigorous requirements

Reliability, value and performance are three key strengths of CITIZEN POS printers and OEM mechanisms. In today's challenging business environment, you need to leverage every possible advantage, and the ability to select from one of the industry's widest ranges of dot matrix and thermal printers and mechanisms gives you this competitive edge. Standard features include semi-automatic paper loading, compact design and reliable high-speed performance. Convenient options such as winders, auto-cutters and multicolor ribbons are also available. Rely on the resources and reputation of a worldwide industry leader to meet your POS printer and OEM mechanism requirements. Get the CITIZEN advantage.



Citizen Systems engages actively in the field of Universal Design, introducing products to enthusiastic consumer response one after another and moving positively to open up new markets.

The design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.

- Ron Mace -

7 Principles

1

Equitable Use

2

Flexibility in Use

3

Simple and Intuitive Use

4

Equitable Use

5

Equitable Use

6

Low Physical Effort

7

Size and Space for Approach and Use

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Printer Mechanisms Lineup

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Line Thermal Printers

Citizen Systems is responding proactively to the world's need for thermal printers, beginning with printers for POS, ECR and kiosk applications. Positive characteristics such as quiet operation, high-speed printing and superior high-density barcode printing make thermal printers ideal for wide-ranging applications, and CITIZEN printers are setting the standard for this vital printer segment.



Standard type



Available in black



Vertical solution

CT-S300



- 100 mm/sec printing speed
- 80 / 58mm selectable paper width
- Easy paper loading
- Optional interface cards
- Built-in AC adapter
- Black mark function (option)
- Cash drawer kick-out
- Bitmap data registration (NV memory)
- Barcode printing
- ESC/POS compatibility
- Page mode
- Two color printing
- Smoothing font
- Easy customization by software
- Availability in white or black

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Barcode

Type Classification

CT-S300 R F 230 S M1

1) 2) 3) 4) 5) 6)

1) Model type
CT-S300

2) Interface
P: Parallel
R: Serial RS-232C
U: USB

3) Character set
F: International

4) Power source
120: AC 120V
230: AC 230V

5) Power supply
S: Built-in AC adapter
A: External AC adapter
D: No AC adapter

Easy paper loading

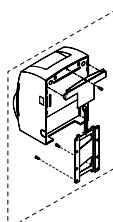


Just drop paper in and close the top cover.

Accessories

Wall mount kit

WALL-CTS300



*Available for external AC adapter type only.

Splash proof cover

SPROOF-CTS300



*Available for built-in AC adapter type only.

Interface cards



Parallel



Serial



USB

Customization software for easy customization



Specifications

Printing method	Line thermal dot printing
Printing width	80mm paper: 72mm/576 dots 58mm paper: 48mm/384 dots
Dot pitch	8 × 8 dots/mm (203 dpi × 203 dpi)
Printing speed	Max. 100mm/sec (23.6 lines/sec)
Number of columns	80mm paper: Font A-48/42 columns / Font B-64/56 columns / Font C-72/63 columns 58mm paper: Font A-32/30 columns / Font B-42/40 columns / Font C-48/45 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) / Font B: 0.88 × 2.13mm (9 × 17 dots) Font C: 0.88 × 2.00mm (8 × 16 dots)
Character table	Code page 437, 850, 852, 857, 858, 860, 863, 864, 865, 866, Katakana, WPC1252, Thai code 18
Barcode type	UPC-A/E, JAN-13/8, ITF, Code 39, Code 128, CODABAR, Code 93
Line spacing	4.23mm (1/6 inch); can be set by a command.
Paper	Thermal paper roll, 80 or 58mm (W) × ø83mm
Interface	Parallel(IEEE 1284 compliant), Serial (RS-232C), USB
Input buffer	4K bytes / 45 bytes
NV user memory	256K bytes
Drawer kick-out	2 Drawers
Power supply	DC 24V ± 7%
AC adapter	Input: AC 100-230V, 50/60 Hz, 120VA Output: DC 24V, 2A
Weight	Approx. 1.2kg
Dimensions (W × D × H)	Standard type: 145 × 195 × 159mm External AC adapter type: 145 × 195 × 121mm
Operating environment	5 ~ 40°C, 35 ~ 85% RH
Storage environment	-20 ~ 60°C, 10 ~ 90% RH
Reliability	Thermal head: 100,000,000 pulses or 100km Auto cutter: 1,000,000 cuts
EMC and safety standards	UL, C-UL, FCC Class A, TUV-GS, CE marking

6) Blackmark sensor (Option)

None: No sensor
M1: Left side
M2: Right side

Line Thermal Printers



Standard type



Available in black



Label type

CT-S2000



Paper Roll 0
82.5
mm

Paper Roll 0
80
mm

Paper Roll 0
60
mm

Paper Roll 0
58
mm

- 220 mm/sec high-speed printing
- 82.5 / 80 / 60 / 58mm selectable paper width
- Front paper exit
- Water proof design(Conform to IPX1)
- One touch cover open and Easy paper loading
- Larger paper roll capability as ø102 mm
- Optional interface cards
- USB is default in addition to Serial or Parallel interface board
- Built-in AC adapter
- Label/Black mark function(option)
- Cash drawer kick-out
- Bitmap data registration(NV memory)
- Barcode printing
- ESC/POS compatibility
- Page mode
- Two color printing
- Smoothing font
- Easy customization by software
- Availability in white or black or dark grey(option)

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Barcode

Type Classification

CT-S2000 DC RS E BK L

1) 2) 3) 4) 5) 6)

1) Model type
CT-S2000

2) Power Supply
None: AC power type
DC: DC power supply type

3) Interface
PA: Parallel + USB
RS: Serial + USB
UB: USB only (Option)

4) Character set
U: USA
E: Europe

5) Body case color
WH: Cool white
BK: Black
GR: Dark Grey (Option)

One touch cover open



Easy paper loading



Just drop paper in and close the top cover.

Accessories

Interface cards



Parallel



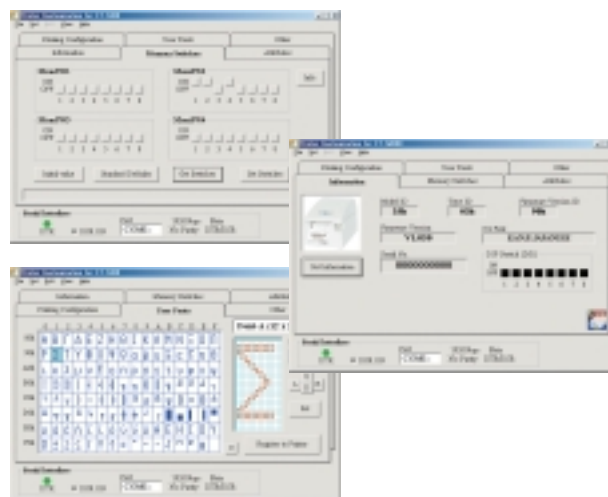
Serial



USB

USB is default in addition to Serial or Parallel interface board

Customization software for easy customization



Specifications

Printing method	Line thermal dot printing
Printing width	82.5 mm paper: 80mm / 640 dots 80 mm paper: 72mm / 576 dots 60 mm paper: 54.5mm / 436 dots 58 mm paper: 54mm / 432 dots
Dot pitch	8 × 8 dots / mm (203 dpi × 203 dpi)
Printing speed	Max. 220 mm/sec (52 lines/sec)
Number of columns	82.5 mm paper: Font A - 53 columns / Font B - 71 columns / Font C - 80 columns 80 mm paper: Font A - 48 columns / Font B - 64 columns / Font C - 72 columns 60 mm paper: Font A - 36 columns / Font B - 48 columns / Font C - 54 columns 58 mm paper: Font A - 35 columns / Font B - 46 columns / Font C - 52 columns
Character size (W x H)	Font A: 1.25 × 3.0 mm (12 × 24 dots) / Font B: 0.88 × 3.00mm (9 × 24 dots) / Font C: 0.88 × 2.00(8 × 16 dots)
Character table	Code page 437, 850, 852, 857, 858, 860, 863, 864, 865, 866, Katakana, WPC1252, Thai code 18
Barcode type	UPC-A / UPC-E / JAN(EAN)-13/8 / ITF / Code 39 / CODE 128 / CODABAR/ Code 93
Line spacing	4.23mm (1/6 inch), can be set by command
Paper	82.5/80/60/58 mm × ø102 mm
Interface	Parallel(IEEE1284 compliant)+USB, Serial(RS-232C)+USB
Input buffer	4K bytes / 45 bytes
NV user memory	384K bytes
Drawer kick-out	2 drawers
Power supply	DC 24V ± 7%
AC adapter	Input: AC100-240V, 50/60Hz, 150VA Output: DC24V, 2A
Weight	AC power type: 2.0kg / DC power type: 1.8kg
Dimensions (W x D x H)	147 × 207 × 147 mm
Operating environment	5 ~ 40°C, 10 ~ 90% RH (No condensation)
Storage environment	-20 ~ 60°C, 10 ~ 90% RH (No condensation)
Reliability	Main unit: 20,000,000 lines, Thermal head: 200,000,000 pulse or 150 km, Auto cutter: 2,000,000 cuts
EMC and safety standard	UL, C-UL, FCC class A, TUV-GS, CE marking

6) Label/Black mark

None: Standard(No sensor type)
L: Label sensor type
M: Black mark sensor type

Line Thermal Printers



Standard type



Available in black



Label type

Easy paper loading



Drop paper in and close the cover.
Then it's ready to print.

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Barcode

Accessories

Interface cards



Parallel



Serial



USB



Ethernet

Rear cover



CBM1000 Type II



- 150 mm/sec printing speed
- 80 / 58mm selectable paper width
- Front paper exit
- Water proof design
- Easy paper loading
- Optional interface cards
- Built-in AC adapter
- Label/Black mark function(option)
- Cash drawer kick-out
- Bitmap data registration (NV memory)
- Barcode printing
- ESC/POS compatibility
- Page mode
- Two color printing
- Smoothing font
- Easy customization by software
- Availability in white or black or dark grey(option)

Specifications

Printing method	Line thermal dot printing
Printing width	80mm paper: 72mm/576 dots 58mm paper: 54mm/432 dots
Dot pitch	8 × 8 dots/mm (203 dpi × 203 dpi)
Printing speed	Max. 150mm/sec (35.4 lines/sec)
Number of columns	80mm paper: Font A - 48/42 columns Font B / 64/56 columns 58mm paper: Font A - 36/30 columns Font B / 48/40 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) / Font B: 0.88 × 3.00mm (9 × 24 dots)
Character type	Code page 437, 850, 852, 857, 858, 860, 863, 865, 866, Katakana, WPC1252
Barcode table	UPC-A/E, JAN-13/8, ITF, Code 39, Code 128, CODABAR, Code 93
Line spacing	4.23mm (1/6 inch), can be set by a command
Paper	Thermal paper roll, 80 / 58mm (W) × ø83mm
Interface	Parallel(IEEE1284 compliant), Serial(RS-232C), USB, 10/100 Base-T
Input buffer	4K bytes / 72 bytes
NV bit map data area	256K bytes
Drawer kick-out	2 Drawers
Power supply	DC 24V ± 7%
AC adapter	Input: AC100-240V, 50/60Hz, 120VA Output: DC24V, 1.9A
Weight	Standard type: 2.0kg/Compact type: 1.4kg
Dimensions (W × D × H)	Standard type: 145 × 190 × 152mm External AC adapter type: 145 × 190 × 114mm
Operating environment	5 ~ 40°C, 35 ~ 85% RH
Storage environment	-20 ~ 60°C, 10 ~ 90% RH
Reliability	Thermal head: 100,000,000 pulses or 100km Auto cutter: 1,000,000 cuts
EMC and safety standard	UL, C-UL, FCC class A, TUV-GS, CE marking

Type Classification

CBM1000II R F 230 T L

1)

2)

3)

4)

5)

6)

1) Model type
CBM1000 Type II

2) Interface
P: Parallel
R: Serial RS-232C
U: USB

3) Character set
F: International

4) Power source
120: AC 120V
230: AC 230V

5) Power supply
T: Built-in AC adapter
A: External AC adapter
D: No AC adapter

6) Label/Blackmark sensor
None: No sensor
L: Label/Blackmark type



Standard type



Vertical solution

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery slip
- Barcode

Accessories

Interface cards



Parallel



Serial



USB

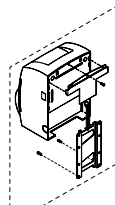
USB is default in addition to Serial or Parallel interface board

Wall mount kit

WALL-CTS300



*Available for external AC adapter type only.



Customization software for easy customization



CT-S4000



- 150 mm/sec high-speed printing
- 112 / 82.5 / 80mm selectable paper width
- Easy paper loading
- Larger paper roll capability as ø102 mm
- Optional interface cards
- USB is default in addition to Serial or Parallel interface board
- Built-in AC adapter
- Label/Black mark function (option)
- Bitmap data registration (NV memory)
- Cash drawer kick-out
- Barcode printing
- ESC/POS compatibility
- Page mode
- Availability in black or white
- Two color printing
- Smoothing font
- Availability in white or black

Specifications

Printing method	Line thermal dot printing
Printing width	112 mm paper: 104mm/832 dots 82.5 mm paper: 82.5mm/660 dots 80 mm paper: 72mm/576 dots
Dot pitch	8 × 8 dots / mm (203 dpi × 203 dpi)
Printing speed	Max. 150 mm/sec (35.4 lines/sec)
Number of columns	112 mm paper: Font A - 69 columns / Font B - 92 columns / Font C - 104 columns 82.5 mm paper: Font A - 55 columns / Font B - 73 columns / Font C - 82 columns 80 mm paper: Font A - 48 columns / Font B - 64 columns / Font C - 72 columns
Character size (W x H)	Font A: 1.25 × 3.0 mm (12 × 24 dots) / Font B: 0.88 × 2.13mm (9 × 17 dots) / Font C: 0.88 × 2.00 (8 × 16 dots)
Character table	Code page 437, 850, 852, 857, 858, 860, 863, 864, 865, 866, Katakana, WPC1252, Thai code 18
Barcode type	UPC-A / UPC-E / JAN(EAN)-13/8 / ITF / Code 39 / CODE 128 / CODABAR / Code 93 / PDF417(Label type only)
Line spacing	4.23mm (1/6 inch), can be set by command
Paper	112 / 82.5 / 80 mm × ø102 mm
Interface	Parallel(IEEE1284 compliant)+USB, Serial(RS-232C)+USB
Input buffer	4K bytes / 45 bytes
NV user memory	384K bytes
Drawer kick-out	2 drawers
Power supply	DC 24V ± 7%
AC adapter	Input: AC100-240V, 50/60Hz, 150VA / Output: DC24V, 2A
Weight	AC power type: 2.1kg / DC power type: 1.9kg
Dimensions(W x D x H)	180 × 213 × 148 mm
Operating environment	5 ~ 45°C, 10 ~ 90% RH (No condensation)
Storage environment	-10 ~ 60°C, 10 ~ 90% RH (No condensation)
Reliability	Main unit: 20,000,000 lines, Thermal head: 100,000,000 pulse or 100 km, Auto cutter: 1,000,000 cuts
EMC and safety standard	UL, C-UL, FCC class A, TUV-GS, CE marking

Easy paper loading



Just drop paper in and close the top cover.

Type Classification

CT-S4000 DC RS E BK L

1) 2) 3) 4) 5) 6)

1) Model type
CT-S4000

2) Power supply
None: AC power type
DC: DC power supply type

3) Interface
PA: Parallel + USB
RS: Serial + USB
UB: USB (only Option)

4) Character set
U: USA
E: Europe

5) Body case color
WH: Cool white
BK: Black

6) Label/Black mark
None: Standard(No sensor type)
L: Label sensor type
M: Black mark sensor type

Line Thermal Printers



CT-S280



CBM-270L (Label type)

Applications

- Receipt
- Kitchen
- Coupon
- Delivery
- Ticket
- Banking
- Daily report
- Medical equipment

Easy paper loading

CT-S280



Just drop paper in and close the top cover.

Mechanism

LT-286 for CBM-270L



CT-S280/CBM-270L



CT-S280

- 80 mm/sec printing speed
- 58mm paper width
- Easy paper loading
- Memory switch function
- Bitmap data registration (NV memory)
- Barcode printing
- ESC/POS compatibility
- Page mode
- Two color printing
- Wall mount installation



CBM-270L Label type

- 50 mm/sec printing speed
- Paper auto loading
- 2K bytes input buffer

Specifications

Model	CT-S280	CBM-270L
Printing method	Line thermal dot printing	
Printing width	48mm (384 dots/line)	
Printing speed	Max. 80 mm/sec (18.9 lines/sec)	Max. 50mm/sec 400 dot/line/sec (11 lines/sec)
Number of columns	Font A: 32 columns / Font B: 42 columns / Font C: 48 columns	Font A: 32 columns. Font B: 42 columns. Font C: 48 columns
Character size (W × H)	Font A: 1.25 × 3.0 mm (12 × 24 dots) / Font B: 0.88 × 3.00mm (9 × 24 dots) / Font C: 0.88 × 2.00 (8 × 16 dots)	Font A: 1.25 × 3.00 mm (12 × 24 dots) / Font B: 0.88 × 3.00 mm (9 × 24 dots)
Character table	Code page 437, 850, 852, 857, 858, 860, 863, 864, 865, 866, Katakana, WPC1252, Thai code 18	Code page 437
Dot pitch	8 × 8 dots/mm(203dpi × 203dpi)	
Barcode type	UPC-A/UPC-E/JAN/EAN-138/ITF/Code 39/Code 128/CODABAR/Code 93	UPC-A/E, JAN/EAN, ITF, CODABAR, CODE 39, CODE 128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)	
Paper	Size: 58 mm × ø83mm, Thickness: 0.065-0.075mm	Thermal roll paper: 58 × ø83mm (max.) Thickness: 0.065-0.075mm Thermal label paper: 58 × ø83mm (max.) Thickness: 0.150mm(max.) Label width: 56mm (max.) Label length: 25mm(lpc) (min.)
Interface	Parallel(IEEE1284 compliant), Serial(RS-232C), USB	Parallel: Centronics, Serial: RS-232C
Input buffer	4K bytes / 45 bytes	2K bytes
NV user memory	256K bytes	—
Power supply	DC8.5V	DC 7.2V
AC adapter	Input: AC100-240V, Output: DC8.5V	Input: AC100-240V(274V), Output: DC7.2V 2A(Peak 6A)
Weight	Printer: Approx.430g, AC adapter: Approx.240g	Printer: Approx. 600g AC adapter: Approx.350g
Dimensions (W × D × H)	106 × 170 × 116.5mm	106 × 184 × 110mm
Operating temp.range	0 ~ 40°C, 10 ~ 85% RH (No condensation)	
Storage temp.range	-20 ~ 60°C, 5 ~ 90% RH (No condensation)	
Reliability	Thermal head: 100,000,000 pulse or 50 km	Thermal head: 50,000,000 pulses or 50km
EMC and safety standards	UL, C-UL, FCC class A, TUV-GS, CE marking	

Type Classification

CT-S280-RS-E

1) 2) 3)

- 1) Model type
CT-S280
- 2) Interface
PA: Parallel
RS: Serial RS-232C
UB: USB
- 3) Region
(Character + power cord)
E: Europe
U: North America

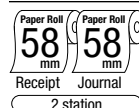
CBM-270 R F 230-L

1) 2) 3) 4) 5)

- 1) Model type
CBM-270
- 2) Interface
P: Parallel
R: Serial RS-232C
- 3) Character set
F: International
- 4) Power source
120: 120 V
230: 230 V
- 5) Label sensor
L: Label type



CBM-262 Type II



- Two station printing
(Receipt and journal with paper winder)
- 80 mm/sec printing speed
- Paper auto loading
- Barcode printing
- Cash drawer kick-out
- ESC/POS compatibility
- Page mode
- Auto cutter (Receipt only)
- Smoothing font

Applications

- Receipt
- Journal
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Barcode

Auto Cutter

ACS-220



Mechanism

LT-289 (Receipt) LT-289D (Journal)



Specifications

Printing method	Line thermal dot printing
Printing width	54mm, 432 dots
Printing speed	Max. 80mm/sec 640 dot-line/sec (Approx. 19 lines/sec)
Number of columns	Font A: 36 columns Font B: 48 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) Font B: 0.88 × 2.13mm (9 × 17 dots)
Dot pitch	8 dots/mm (Horizontal/Vertical)
Barcode type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 93, Code 128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)
Paper	Thermal paper roll, 58mm × ø83mm
Interface	Parallel: Centronics Serial: RS-232C
Input buffer	8K bytes
Power supply	DC 24V
AC adapter	Input: AC 100-240V, 50/60Hz, 120V, Output: DC 24V, 1.8A
Weight	Main unit: 2.3kg, AC adapter: 0.4kg
Dimensions (W × D × H)	128 × 359.5 × 162.5mm
Operating temp. range	5 ~ 40°C
Storage temp. range	-10 ~ 60°C
Reliability	Thermal head: 50,000,000 pulses or 50km Auto cutter: 300,000 cuts
EMC and safety standards	UL, C-UL, FCC class A, TUV-GS, CE marking

Type Classification

CBM-262II R F 230

1)

2) 3) 4)

1) Model type
CBM-262 Type II

2) Interface
P: Parallel
R: Serial RS-232C

3) Character set
F: International

4) Power source
120: AC 120 V
230: AC 230 V

Line Thermal Printers

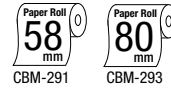


CBM-291



CBM-293

CBM-291/293



- Compact design
- Panel mounting
- High-speed line thermal printing
- Paper auto loading
- Barcode printing
- ESC/POS compatibility
- Auto cutter
- DC 24V drive
- Both parallel and serial interface

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kiosk
- Kitchen
- Delivery
- Barcode
- Industrial machine

Auto Cutter

ACS-220 (CBM-291) ACS-230 (CBM-293)



Mechanism

LT-282 (CBM-291) LT-381 (CBM-293)



Specifications

Model	CBM-291	CBM-293
Printing method	Line thermal dot printing	
Printing width	52mm, 416 dots	72mm, 576 dots
Printing speed	Max. 50mm/sec	Max. 62.5mm/sec
Number of columns	Font A: 34 columns Font B: 46 columns	Font A: 48 columns Font B: 64 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) Font B: 0.88 × 2.14mm (7 × 19 dots)	
Dot pitch	8 dots/mm (Horizontal and Vertical)	
Barcode type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128	
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)	
Paper	58 × Max. ø50mm	80 × Max. ø50mm
Interface	Parallel: Centronics Serial: RS-232C	
Input buffer	4K bytes	
Power supply	DC 5V and DC 24V	DC 24V
Weight	0.56kg	0.67kg
Dimensions (W × D × H)	106 × 109 × 99mm	126 × 109 × 99mm
Operating temp. range	5 ~ 40°C	
Storage temp. range	-20 ~ 60°C	
Reliability	Thermal head: 50,000,000 pulses or 30km Auto cutter: 300,000 cuts	
EMC and safety standards	FCC class A, TUV, CE marking	

Type Classification

CBM-291 F DC

1) 2) 3)

1) Model type
CBM-291 (58mm)
CBM-293 (80mm)

2) Character set
F: International

3) Power source
DC: No AC adapter



Standard type



Mag stripe card reader type



Wireless communication using IrDA



Long battery life using Li-ion battery



Belt clip available as standard

Easy paper loading



Just drop a paper in and close the top cover.

Mechanism

MLT-289



Accessories

Serial interface cable (option)

CA10-01



Softcase (option)

SC10-01



CMP-10/CMP-10BT



- Palm size
- Easy paper loading
- IrDA and serial interface (Cable is option)
- Bluetooth type available
- Li-ion battery (Large capacity)
- ESC/POS compatibility
- Auto power off
- Low battery monitoring
- Belt clip
- 40 or 50 mm diameter cover
- Internal charging circuit
- Mag stripe card reader type available

Applications

- Mobile
- Receipt
- Ticket
- Credit/ Debit
- Daily report
- Delivery slip
- Barcode
- Taxi meter

Specifications

Printing method	Line thermal dot printing
Printing width	58mm/ 384 dots
Dot pitch	8 × 8 dots/mm (203dpi × 203dpi)
Printing speed	Max.50mm/sec
Number of columns	Font A: 32 columns: 12 × 24 dots Font B: 42 columns: 9 × 16 dots
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) Font B: 0.88 × 2.13mm (9 × 16 dots)
Character table	ASCII, WPC1252 (Other code page data are ready to load)
Barcode type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 93, Code 128
Line spacing	4.23mm (1/6 inch), Software selectable
Paper	Thermal paper roll width: 58mm, Thickness: 60-65 μm, Outer diameter: ø50 or 40 (option), Core diameter: Min.8mm
Interface	IrDA Version 1.0 RS-232C with optional special cable (1200-115200 bps), Bluetooth (option)
Input buffer	64K bytes
Sensor & Error monitoring	Paper end, Cover-open, Low battery, Head overhead
Mag stripe card reader	Track 1, 2, 3
Power supply	Li-ion battery, 2000mAh AC adapter only for charging (Output DC9V, 2A)
Battery	40,000 print lines per charge Maximum recharge time: 3 hours
Auto power off	1-60min. (default 10min.) Software selectable
Weight	Approx. 370g (with 50mm dia cover + card reader)
Dimensions (W × D × H)	116 × 104 × 63mm (with 50mm dia cover + card reader)
Operating environment	5 ~ 40°C
Storage environment	-20 ~ 60°C
Reliability	Thermal head: 100,000 pulses or 50km Mechanism (MCBF) : 15,000,000 lines
EMC and safety standards	UL, C-UL, TUV, GS, CE Marking, FCC Class B, VCCI Class B

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Type Classification

CMP-10 E 5 M

1) 2) 3) 4)

1) Model type
CMP-10: Standard type
CMP-10BT: Bluetooth type

2) Power source
U: AC 120V
E: AC 230V

3) Diameter of paper roll in stock (Paper cover)
4: 40mm
5: 50mm

4) Mag stripe card reader
None: Standard
M: Mag stripe card reader type

Impact Dot Matrix Printers

A standard among the expanding variety of printers, dot impact printers remain the top choice for a variety of applications. Their special strength in high-speed, plain-paper printing makes dot impact printers essential for check and validation applications, among others. Because CITIZEN brings all its precision machinery expertise to bear in the development of dot impact printers, it is perfectly positioned to meet every customer need.



CD-S500S
(Standard type)



CD-S501S
(With auto cutter type)
Available in Black



CD-S503S
(With auto
cutter/winder type)



Vertical solution

CD-S500/501/503



- 5.0 lines/sec high-speed printing
- 76.2 / 69.5 / 57.5mm selectable paper width
- Easy paper loading
- Logic-seeking control
- Optional interface cards
- Built-in AC adapter
- Black mark function (option)
- Cash drawer kick-out
- Memory switch function
- Build-in buzzer
- Bitmap data registration (NV memory)
- ESC/POS compatibility
- Page mode
- Two color printing
- 3 PLY paper printing capability
- Easy customization by software
- Availability in white or black
- High reliability and durability

Applications

- Receipt
- Journal
- Ticket
- Daily report
- Kitchen
- Delivery

Type Classification

CD-S500 S RS E WH M1

1) 2) 3) 4) 5) 6)

1) Model type

CD-S500: Standard type
CD-S501: With auto cutter type
CD-S503: With auto cutter and winder type

2) Power source type

S: Built-in AC adapter type

3) Interface

PA: Parallel IEEE1284
RS: Serial RS-232C
UB: USB

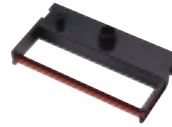
Easy paper loading



Just drop paper in and close the top cover.

Accessories

- Ink ribbon: IR-31B (Black)
- Ink ribbon: IR-31P (Purple)
- Ink ribbon: IR-31RB (Red/Black)



Accessories

Wall mount kit

WALL-CTS300



Interface cards



Parallel

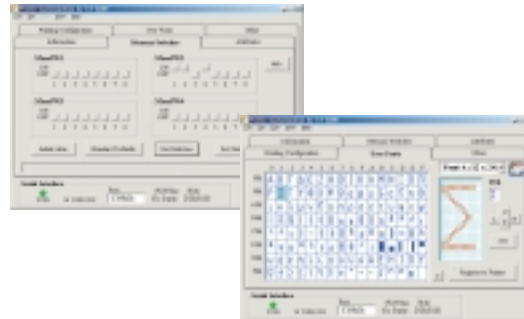


Serial



USB

Customization software for easy customization



Specifications	
Printing method	Serial dot impact (Logic-seeking control)
Printing direction	Bi-directional
Font	Font A: 7 × 9, 9 × 9 matrix
Number of columns	76.2mm paper : Font A-40/42 columns / Font B-33/35 columns 69.5mm paper : Font A-36/30 columns / Font B-38/31 columns (69.5mm paper width) 57.5mm paper : Font A-30/25 columns / Font B-31/26 columns (57.5mm paper width)
Printing speed	5.0 lines/sec at 76.2mm width+40 columns 5.4 lines/sec at 69.5mm width+36 columns 6.0 lines/sec at 57.5mm width+30 columns
Character size (W × H)	Font A: 1.25 × 3.12mm(7 × 9 dots), Font B: 1.57 × 3.12mm(9 × 9 dots)
Character set	Alphanumeric, International, Code page 437,850,860,863,865,852,866,857,858, WPC1252
Line spacing	4.23mm
Line feed speed	40 lines/sec
Paper feed method	Friction
Paper	76.2/69.5/57.5 ± 0.5mm × ø83mm Thickness:0.06-0.085mm(1 Ply) 1Ply/2Ply/3Ply copy paper 0.05 - 0.14mm(Copy paper cut) 0.05 - 0.20mm(Copy paper print)
Interface	Parallel(IEEE1284 compliant), Serial(RS-232C), USB
Input buffer	4K/40 bytes
NV bit map data area	128K bytes
Drawer kick-out	2 drawers
Ink ribbon	Red/Black, Black, Purple, Cassette
Power supply	DC24V ± 7%
AC adapter	Input:AC 100-230V,1.3A Output:DC24V ± 5%
Weight	Approx.2.8kg(Standard type) 3.2kg(With auto cutter/winder type)
Dimensions (W × D × H)	156 × 247.7 × 174.4mm(Standard type) 156 × 277.7 × 197.8mm(With auto cutter/winder type)
Operating environment	0 - 50°C, 10 - 90% RH
Storage environment	-20 - 70°C, 5 - 90% RH
Reliability	Printer:MCBF 7.5 million lines Print Head:150 million characters Auto cutter:1,000,000 cuts
EMC and Safety standards	UL, C-UL, FCC classA, TUV-GS, CE marking

4) Region(Characters + power cord)

E: Europe
U: North America

5) Case Color

WH: Cool white
BK: Black

6) Black mark sensor

None: No sensor
M1: Left sensor for paper front
M2: Right sensor for paper back
M3: Left sensor for paper front
M4: Right sensor for paper back

Impact Dot Matrix Printers



iDP3550F
(Standard Type)



iDP3551F
(With auto cutter type)



iDP3550P+35PB-1 Paper basket



iDP3551F+AW-3 Winder

Auto Cutter

AC-134

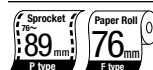


Mechanism

DP-650 Series



iDP3550/3551



- Paper auto loading
- Compatibility (CBM, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Auto winder option (AW-3)
- Cash drawer kick-out
- Pinfeed version (iDP3550P)
- Two color printing

Applications

- Receipt
- Journal
- Ticket
- Label
- Credit/Debit
- Daily report
- Kitchen
- Delivery

Accessories

- Winder: AW-3
- Paper basket: 35PB-1
- Ink ribbon: IR-61B (Black)
- Ink ribbon: IR-61P (Purple)
- Ink ribbon: IR-61RB (Red/Black)

Specifications

Model	iDP3550F	iDP3550P	iDP3551F
Printing method	Serial impact dot matrix		
Printing direction	Bidirectional		
Font	7 × 9 matrix		
Number of columns	40 columns		
Printing speed	3.6 lines/sec (DP-654), 3.0 lines/sec (DP-657)		
Character size (W × H)	1.36 × 2.4mm (DP-654), 1.20 × 2.4mm (DP-657)		
Character set	Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, WPC1252		
Line spacing	4.23mm (DP-654), 2.82mm (DP-657)		
Character pitch	1.59mm (DP-654), 1.46mm (DP-657)		
Line feed speed	18 lines/sec (DP-654), 15 lines (DP-657)		
Paper feed method	Friction	Sprocket	Friction
Paper	76mm roll paper	76 ~ 89mm fanfold paper	76mm roll paper
Interface	Parallel: Centronics, Serial: RS-232C		
Input buffer	6K bytes		
Paper end sensor	Equipped	None	Equipped
Paper cutter	None		Partial/Full cut
Paper winder	AW-3 (Option)	None	AW-3 (Option)
Cash drawer kick-out	2 drawers		
Ink ribbon	Red/Black, Cassette		
Power supply	AC 100/120/230V		
Power consumption	30W		
Weight	2.8kg		3.0kg
Dimensions (W × D × H)	160 × 184 × 173mm		160 × 184 × 199.3mm
Operating temp. range	0 ~ 40°C		
Storage temp. range	-20 ~ 60°C		
Reliability	Printer: MCBF 4.0 million lines Print head: 80 million characters		Printer: MCBF 4.0 million lines Print head: 80 million characters Cutter: 500,000 cuts
EMC and safety standards	UL, C-UL, FCC class A, TUV-GS, CE marking		

Type Classification

iDP3551 F 40 R F 230 C

1) 2) 3) 4) 5) 6) 7)

- 1) Model type
iDP3550: No cutter
iDP3551: With cutter
- 2) Paper
F: Friction feed
P: Sprocket feed

- 3) Column capacity
40: 40 columns
- 4) Interface
P: Parallel
R: Serial RS-232C

- 5) Character set
F: International
- 6) Power source
120: AC 120 V
230: AC 230 V

- 7) Mode
C: Character
G: Graphic



iDP3420
(Standard type)



iDP3421
(With auto cutter type)



iDP3423
(With auto cutter + Auto winder type)

Auto Cutter

ACS-234



Mechanism

DP-430



iDP3420/3421/3423



- Auto cutter (iDP3421/3423)
- Auto winder (iDP3423)
- 6K bytes memory buffer
- Graphic printing
- Two color printing
- Cash drawer kick-out
- Compatibility (CBM, ESC/POS, Star)
- Paper auto loading

Applications

- Receipt
- Journal
- Ticket
- Credit/Debit
- Delay report
- Kitchen
- Delivery

Accessories

- Ink ribbon: IR-41B (Black)
- Ink ribbon: IR-41P (Purple)
- Ink ribbon: IR-41RB (Red/Black)

Specifications

Model	iDP3420	iDP3421	iDP3423
Printing method	Serial impact dot matrix		
Printing direction	Bidirectional		
Font	7 × 9 matrix		
Number of columns	40/42 columns (Selectable by Dip switch)		
Printing speed	Approx. 3.0 line/sec		
Character size (W × H)	1.31 × 3.1mm		
Character set	Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code		
Line spacing	4.23mm (1/6 inch) or 2.82mm (1/9 inch) Min. 1.41mm (1/18inch)		
Paper	76mm Roll paper		
Interface	Parallel: Centronics, Serial: RS-232C		
Input buffer	6K bytes / 256 bytes		
Paper end sensor	Equipped		
Paper near end sensor	Equipped		
Paper cutter	None	Equipped	Equipped
Paper winder	None	None	Equipped
Cash drawer kick-out	2 drawers		
Ink ribbon	Red/Black, or Black (CBM Ink ribbon cassette)		
Power supply	AC 100/120/230V		
Power consumption	30W (During printing)		
Weight	2.4kg	2.6kg	2.8kg
Dimensions (W × D × H)	164 × 248 × 140mm		164 × 280 × 183mm
Operating environment	0 ~ 40°C, 35 ~ 85% RH		
Storage environment	-20 ~ 60°C, 10 ~ 90% RH		
Reliability	Printer: MCBF 2.5 million lines Print head: 80 million characters	Printer: MCBF 2.5 million lines Print head: 80 million characters Auto cutter: 500,000 cuts	Printer: MCBF 2.5 million lines Print head: 80 million characters Auto cutter: 500,000 cuts
EMC and safety standards	UL, C-UL, FCC class A, TUV-GS, CE marking		

Type Classification

iDP3420 R F 230

1)

2)

3)

4)

1) Model type

iDP3420: Standard type
iDP3421: With auto cutter type
iDP3423: With auto cutter and winder type

2) Interface

P: Parallel
R: Serial RS-232C

3) Character set

F: International

4) Power source

120: AC 120 V
230: AC 230 V

Impact Dot Matrix Printers



CBM-910 type II



CBM-920

Accessories

Mechanism

MD-910/911



CBM-910 Type II / CBM-920



- Palm size and Light weight
- Bit image graphics printing
- Memory switch equipped (CBM-910 type II)
- CBM-910/iDP3110 emulation (CBM-910 type II)
- 2K bytes input buffer
- Wall mount (CBM-910 type II)
- Panel mount (CBM-920)
- Paper-near-end sensor
- Paper auto loading (CBM-920)
- Paper-end sensor (CBM-920)

Applications

- Receipt
- Daily report
- Industrial machine (CBM-920)
- Ticket
- Kitchen
- Credit/Debit
- Delivery
- Journal

Accessories

- Ink ribbon: IR-91B (Black)
- Ink ribbon: IR-91P (Purple)

Specifications

Model	CBM-910Type II	CBM-920
Printing method	Serial dot impact	
Printing direction	Left to right	
Font	5 × 8 matrix	
Number of columns	24/40 columns	
Paper width	57.5mm	
Printing speed	24 col = 2.5 lines/sec 40 col = 1.8 lines/sec	
Character size (W × H)	24 col = 1.62 × 2.4mm 40 col = 1.08 × 2.4mm	
Character table	PC437, 852, 857, 858, 860, 863, 864, 865, 866, 869, WPC1252, Katakana, CBM-910 emulation (Japan, International)	
Line spacing	Character = 3.52mm / Graphic = 2.4mm	
Character pitch	24 col = 1.98mm / 40 col = 1.19mm	
Line feed speed	5.0 lines/sec	
Paper	Paper roll: 57.5±0.5(W) × 60 or 80(Dia) mm	Paper roll: 57.5±0.5(W) × 50 or 50(Dia) mm
Interface	Parallel: Centronics, Serial: RS-232C	
Input buffer	2k bytes/72 bytes (Selectable by memory switch on Serial IF model)	2K bytes
Paper end sensor	—	Equipped
Paper nearend sensor	Equipped	—
Ink ribbon	Purple, Cassette	
Power supply	AC adapter (S240E), Input: AC 100/120/230 Output: DC7V	DC 5V only
Power consumption	Printing: Approx. 7VA Stand-by: Approx. 0.5VA	
Weight	Approx. 0.47kg	Approx. 0.5kg
Dimensions (W × D × H)	106 × 180 × 88mm	115 × 119 × 65mm
Operating environment	0 to 40°C, 35 to 85% RH(without condensation)	
Storage environment	-20 to 60°C, 10 to 90% RH(without condensation)	
Reliability	Printer: MCBF 1.5 million lines	Printer: MCBF 1.0 million lines (40 columns)
EMC and safety standards	FCC class B, TUV-GS, CE Marking	FCC class A, TUV-GS, CE marking

Type Classification

CBM-910II-24 R F 230-A

1) 2) 3) 4) 5) 6)

1) Model type

CBM 910 type II
CBM 920

2) Number of columns

24: 24 columns/144 dots
40: 40 columns/180 dots

3) Interface

P: Parallel
R: Serial RS-232C

4) Character set

F: International

5) Power source

CBM-910 type II
120: AC 120 V
230: AC 230 V
CBM-920
DC: DC 5 V

6) Printer cover

CBM-910 type II
A: For 60 mm (Dia.) Paper roll
B: For 80 mm (Dia.) Paper roll



CBM-820



- Compact design
- Easy paper loading
- Slip paper printing
- Cash drawer kick-out
- 3 PLY paper printing capability
- ESC/POS compatibility
- Page mode

Applications

- Receipt
- Invoice
- Sales slip
- Daily report
- Ticket
- Delivery slip
- Credit/Debit
- Check endorsement
- Check

Accessories

- Ink ribbon: IR-82P (Purple)

Specifications

Printing method	Serial impact dot matrix
Printing head	9 pins
Number of columns	42 col. (7 × 9 font), 35 col. (5 × 9 font)
Printing speed	3.1 lines/sec (Maximum)
Character size (W × H)	7 × 9 font (half): 1.2 × 2.42mm 5 × 9 font (2 pulses per dot): 1.5 × 2.42mm 5 × 9 font (3 pulses per dot): 2.1 × 2.42mm
Character set	PC437, PC850, International
Dot spacing	Horizontal: 0.30mm Vertical: 0.35mm
Printing width	63mm
Emulation	ESC/POS
Ink ribbon	Purple or Black (CBM ink ribbon cassette)
Paper	80 to 182mm (W) × 80 to 257mm (H) Original + 2 copies / Thickness: 1 ply 0.09 to 0.2mm Duplicates 0.12mm to 0.25mm / (Max. 0.2mm for graphics printing)
Interface	Serial: RS-232C
Input buffer	2K bytes or 35 bytes
Cash drawer kick-out	2 drawers
Sensors	Paper out top-of-form, bottom-of-form sensors
Power supply	AC adaptor (32AD) 100/120/230V / Output 24V DC 5%, 1.9A
Power consumption	Peak current: 3.1A / Continuous ASCII printing + paper feed: 0.6A
Weight	2.1kg
Dimensions (W × D × H)	180 × 190 × 138mm
Operating environment	5 ~ 40°C
Storage environment	-20 ~ 60°C
Reliability	Printer: MCBF 2.5 million lines Print head life: 70 million characters
EMC and safety standards	UL, C-UL, FCC class A, TUV-GS, CE marking

Type Classification

CBM-820 R F 230

1) 2) 3) 4)

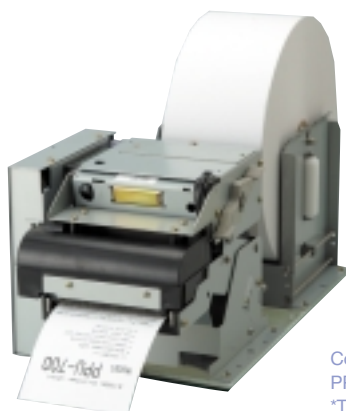
1) Model type
CBM-820

2) Interface
R: Serial RS-232C

3) Character set
F: International

4) Power source
120: 120 V
230: 230 V

Line Thermal Kiosk Units

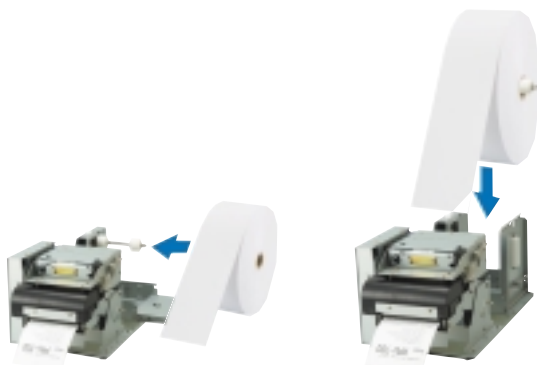


Complete unit
PPU-700/PHU-331
*The bottom plate is not included.

Easy roll paper installation

PPU-700/PHU-331S

PPU-700/PHU-331T



Accessories

Interface cards



Parallel

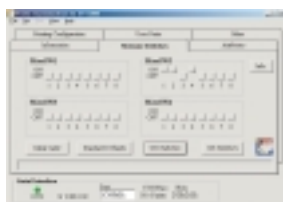


Serial



USB

Customization software for easy customization



PPU-700/PHU-331



- 150 mm/sec high-speed printing
- 83 / 80 / 67 / 58mm selectable paper width
- Easy paper handling
- Optional interface cards
- Presenter unit incorporated
- Label/Black mark function(option)
- Bitmap data registration (NV memory)
- Barcode printing
- Page mode
- Two color printing
- Smoothing font
- Easy customization by software
- Large roll paper diameter up to 203mm (PHU-331/332)

Specifications

Printing method	Line thermal dot printing
Printing width	80mm/640 dots (paper width 83mm) 72mm/576 dots (paper width 80mm) 60mm/480 dots (paper width 67mm) 54mm/432 dots (paper width 58mm)
Dot pitch	8 × 8 dots/mm (203 dpi × 203 dpi)
Printing speed	Max. 150mm/sec (35.4 lines/sec)
Number of columns	80mm paper: Font A - 48 columns Font B - 64 columns Font C - 72 columns
Character size (W × H)	1.25mm × 3.00mm (Font A: 12 × 24 dots) 0.88mm × 2.13mm (Font B: 9 × 17 dots) 0.88mm × 2.00mm (Font C: 8 × 16 dots)
Character table	Code page 437, 850, 852, 857, 858, 860, 863, 864, 865, 866, Katakana, WPC1252, Thai code 18
Barcode type	UPC-A/E, JAN-13/8, ITF, Code 39, Code 128, CODABAR, Code 93
Logo registration/print	Capable of registering user-defined characters print and logos into flash memory.
Line spacing	4.23mm (1/6 inch); can be set by a command.
Paper	Thermal paper roll: Paper width 58/67/80/83mm Paper roll diameter 203mm or less Paper thickness 0.065 - 0.150mm Core diameter: 12mm (paper thickness: 0.065 - 0.080mm) 25.4mm (paper thickness: 0.080 - 0.150mm) Recommended paper: TF-50KS-E-2D, TF-62KS-E (Nippon Paper industries)
Interface	Parallel: IEEE 1284 compliant, Serial (RS-232C), or USB
Input buffer	4K bytes (72 bytes selectable with a DIP switch)
NV user memory	256K bytes
Sensors	Paper near end sensor (adjustable, for PHU series) (photo interrupter) Paper end sensor (mechanical switch) Black mark sensor (photo interrupter) Cover open sensor (mechanical switch) Presenter sensor (photo interrupter)
Power supply	24V ± 7%
Power consumption	100W
Weight	PPU700: 2.1 kg (incl. control PCB) PHU-331: 0.95 kg (excl. roll paper)
Dimensions (W × D × H)	PPU-700: 163.2 (incl. control PCB) × 176 × 143mm PHU-331: 114.4-138.9 × 122.6 × 137.2mm
Operating environment	5 ~ 40°C, 35 ~ 85% RH
Storage environment	-20 ~ 60°C, 10 ~ 90% RH
Reliability	Thermal head: 100,000,000 pulses or 100km Auto cutter: 1,000,000 cuts
EMC and safety standards	UL, C-UL, FCC Class A, TUV-GS, CE marking

Type Classification

PPU-700 P U M1

1) 2) 3) 4)

- 1) Model type
PPU-700
- 2) Interface
P: Parallel
R: Serial RS-232C
U: USB
- 3) Character set
U: US/Europe
- 4) Blackmark sensor (Option)
None: No sensor
M1: Left side of back
M2: Right side of back
(Open lever side)
M3: Left side of front

PHU-331 S

1) 2) 3) 4)

- 1) Model type
2) Length of roll paper shaft
3: 58-82.5mm (Standard)
2: 58mm fixed
- 3) Number of PNE sensor
1: 1 sensor (Standard)
2: 2 sensor
- 4) Roll paper installation
S: From side (Standard)
T: From top



Complete unit
PPU-231/PHU-131
*The bottom plate is not included.

PPU-231/PHU-131



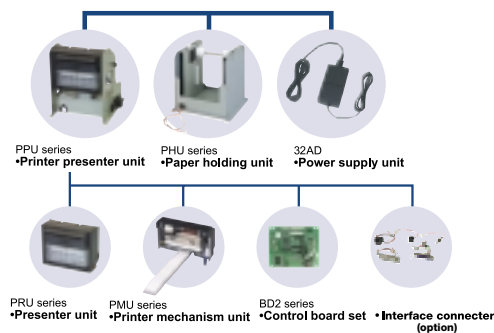
- Easy paper handling — the presenter unit feeds the paper after print and cut
- Paper auto loading
- Barcode printing
- Bitmap registration
- Page Mode
- Large roll paper diameter up to 203mm
- Both parallel (Centronics) and serial (RS-232C) interfaces available
- Equipped with a paper end sensor and paper near end sensor

Mechanism

LT-380V



Unit breakdown



Specifications

Printing method	Line thermal dot printing
Printing width	72mm/576 dots
Dot pitch	8 × 8 dots/mm (203 dpi × 203 dpi)
Printing speed	Max. 62.5mm/sec (14.8 lines/sec)
Number of columns	Font A - 48 columns Font B - 64 columns
Character size (W × H)	1.25mm × 3.00mm (Font A: 12 × 24 dots) 0.88mm × 3.00mm (Font B: 9 × 24 dots)
Character table	Alphanumeric, International characters
Barcode type	UPC-A/E, JAN-13/8, ITF, Code 39, Code 128, CODABAR, Code 93
Line spacing	4.23mm (1/6") Selectable by command set (Min. 1/203 inch).
Paper	Thermal roll paper Width: 80mm (W) × ø83mm External diameter: ø203mm (with paper holder unit) Internal diameter: ø25.4mm Paper thickness: 60 to 85 μm Recommended paper: TF-50KS-E, TF-62KS-E (Nippon Paper Industries)
Interface	Serial (RS-232C), Parallel (Centronics)
Input buffer	4K bytes
Sensors	Paper near end sensor (adjustable, for PHU series) Paper end sensor (for PMU series) Black mark sensor (option)
Power source voltage	24V ± 7%
Power consumption	100W
Weight	PPU-231: 1.6 kg (incl. control PCB) PHU-131: 0.9 kg (excl. roll paper)
Dimensions (W × D × H)	PPU: 153.7 × 160 × 172mm / PHU: 132.2 × 120 × 125.2mm
Operating environment	5 ~ 40°C, 35 ~ 85%RH (No condensation)
Storage environment	-20 ~ 60°C, 10 ~ 90%RH (No condensation)
Reliability	Thermal head: 50,000,000 pulses or 30km Auto cutter: 300,000 cuts
EMC and safety standards	UL, C-UL, FCC class A, TUV-CE marking

Type Classification

PPU-231 F E

1) 2) 3)

1) Model type PPU-231
2) Interface (option) P: Parallel (23SEC-2663) R: Serial (23SEC-2662)
3) Character set U: US E: Europe

PHU-131

1) 2)

1) Model type PHU-13*: Paper holding unit
2) Number of PNE sensor 1: 1 sensor 2: 2 sensors

Printers Lineup

Line Thermal Printers

CT-S300

- 100mm/sec printing speed
- 80/58mm paper width
- Smallest size in its class
- Easy paper loading
- Built-in AC adapter
- Wall mount installation

▶ P3



CT-S2000

- 220mm/sec high-speed printing
- 82.5/80/60/58mm paper width
- One touch cover open and easy paper loading
- Front paper exit and Water proof design
- Larger paper roll capability as ø102mm
- Built-in AC adapter

▶ P5



CBM1000 Type II

- 150mm/sec printing speed
- 80/58 mm paper width
- Easy paper loading
- Front paper exit
- Built-in AC adapter

▶ P7



CT-S4000

- 150 mm/sec high-speed printing
- 112 / 82.5 / 80mm paper width
- Easy paper loading
- Built-in AC adapter
- Wall mount installation

▶ P8



CT-S280/CBM-270L

- 80 mm/sec printing speed
- 58mm paper width
- Easy paper loading
- Label paper printing(CBM-270L)
- Wall mount installation

▶ P9



CBM-262 Type II

- 80mm/sec printing speed
- Two station printing
- Paper auto loading
- Auto cutter equipped(For receipt)
- Cash drawer kick-out

▶ P10



CBM-291/293

- Panel mount installation
- 58mm(CBM-291)/80mm(CBM-293) paper width
- Compact design
- Auto cutter equipped
- Paper auto loading

▶ P11



CMP-10/CMP-10BT

- Palm size
- 58 mm paper width
- Battery drive
- IrDA and serial interface
- Bluetooth type available

▶ P12



Line Thermal Kiosk Units

PPU-700/PHU-331

- 150mm/sec high speed printing
- 83/80/67/58 selectable paper width
- Thicker paper capability(0.065-0.150mm)
- Presenter unit incorporated
- Larger paper roll capability as ø203mm(PHU-331)

▶ P19



PPU-231/PHU-131

- 62.5mm/sec printing speed
- 80mm paper width
- Paper auto loading
- Presenter unit incorporated
- Larger paper roll capability as ø203mm(PHU-131)

▶ P20



Impact Dot Matrix Printers

CD-S500/501/503

- 5.0 lines/sec high-speed printing
- 76/69/58mm paper width
- Easy paper loading
- Logic seeking control
- Wall mount installation
- Built-in AC adapter

▶ P13



iDP3550/3551

- 3.6lines/sec printing speed
- 76mm paper width
- Paper auto loading
- Auto cutter equipped(iDP3551)
- CBM, ESC/POS, STAR compatibility

▶ P15



iDP3420/3421/3423

- 3.0lines/sec printing speed
- 76mm paper width
- Paper auto loading
- Auto cutter equipped(iDP3421)
- Auto cutter & Auto winder equipped(iDP3423)

▶ P16



CBM-910 Type II

- Palm size and Light weight
- 58mm paper width
- Memory switch equipped
- CBM-910/iDP3110 emulation
- Bit image graphics printing

▶ P17



CBM-920

- 58mm paper width
- Panel mount
- Paper auto loading
- Paper-end sensor

▶ P17



CBM-820

- Slip paper printing
- Easy paper loading
- 3 ply paper printing capability
- Cash drawer kick-out

▶ P18



Applications / Features

Application Reference Table

Line Thermal Printers

	CT-S300	CT-S2000	CBM1000II	CT-S4000	CBM-262II	CT-S280	CBM-270L	CBM-291 CBM-293	CMP-10	PPU-700 PPU-331	PPU-231 PPU-131
Receipt	●	●	●	●	●	●	●	●	●		
Journal					●						
Sales Slip											
Coupon	●	●	●	●	●	●	●	●	●		
Ticket	●	●	●	●	●	●	●	●	●	●	●
Label		Option	Option				●				
Credit / Debit							●		●		
Check											
Invoice											
Daily Report	●	●	●	●	●	●	●	●	●		
Kitchen	●	●	●	●	●	●	●	●			
Delivery	●	●	●	●	●	●	●	●	●		
Check Endorsement											
Barcode	●	●	●	●	●	●	●	●	●	●	●
Industrial machine								●		●	●
Portable									●		
Kiosk		●	●					●		●	●

Impact Dot Matrix Printers

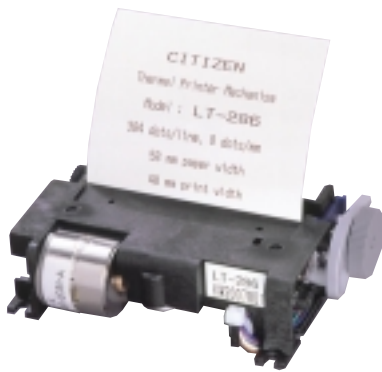
	CD-S500 CD-S501	CD-S503	iDP3550 iDP3551	iDP3420 iDP3421	iDP3423	CBM-910II	CBM-920	CBM-820
Receipt	●	●	●	●	●	●	●	●
Journal	●	●	●	●	●	●	●	
Sales Slip								●
Coupon								
Ticket	●	●	●	●	●	●	●	●
Label								
Credit / Debit	●	●	●	●	●	●	●	●
Check								●
Invoice								●
Daily Report	●	●	●	●	●	●	●	
Kitchen	●	●	●	●	●	●	●	
Delivery	●	●	●	●	●	●	●	●
Check Endorsement								●
Barcode								
Industrial machine							●	
Portable								
Kiosk								

Feature Reference Table

Model name	Auto cutter	Presenter	Bar- code	Battery drive	Cash drawer kick-out	DC drive	ESC/ POS	Internal power supply	Label printing	Page mode	Panel mount	Paper winder	Easy paper loading	Paper auto loading	Sprocke teed	Two station	Two color print	Valida- tion print	80 columns
CT-S300	●		●		●		●	●		●			●				●		
CT-S2000	●		●		●		●	●	Option	●			●				●		
CBM1000II	●		●		●		●	●	Option	●			●				●		
CT-S4000	●		●		●		●		Option	●			●				●		●
CBM-262II	●		●		●		●			●		●		●		●			
CT-S280			●				●		●	●							●		
CBM-270L			●				●						●	●			●		
CBM-291	●		●			●	●				●								
CBM-293	●		●			●	●				●			●					
CMP-10			●	●			●			●			●						
PPU-700	●	●	●			●	●						●						
PPU-231	●	●	●			●	●						●						
CD-S500					●		●	●					●				●		
CD-S501	●				●		●	●					●				●		
CD-S503	●				●		●	●				●	●				●		
iDP3550F					●		●	●				Option		●			●		
iDP3550P					●		●	●							●		●		
iDP3551F	●				●		●	●				Option		●			●		
iDP3420					●		●	●						●			●		
iDP3421	●				●		●	●						●			●		
iDP3423	●				●		●	●				●		●			●		
CBM-910II						●								●					
CBM-920									●	●				●					
CBM-820					●		●											●	

Line Thermal Printer Mechanisms

The many benefits of thermal printers include quiet operation, high-speed printing and excellent high-density barcode printing. Demand for thermal printers is rising steadily worldwide as POS, ECR and KIOSK applications proliferate. Citizen Systems provides a wide range of high-quality thermal printers to meet these expanding customer needs.



LT-286



- 58mm paper width
- 5V operation
- 50mm/sec printing speed
- Compact design

Accessories

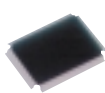
Control board

BD2-2860U



Gate array

202LA-00



Control chip

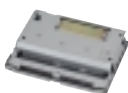
202PC-04



Interface	Parallel and RS-232C
Number of columns	Font A: 32 / Font B: 42
Font	Font A: 12 × 24 dots / Font B: 9 × 24
Command set	ESC/POS
Barcode	Supported
Firmware location	Masked CPU
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up, LF switch, Error LED, Paper out LED
Dimensions	80 × 80mm
Source voltage	5.0 ±5%
Gate array	202LA-00

Auto cutter

ACS-224



Cutting method	Slide cutting
Paper width	45 — 69mm
	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	5V ±10%
Current (peak)	2.8A
Operating temperature	0 — 45°C
Size	80 × 55.7 × 15mm
Weight	140g
Reliability	500,000 cuts
Number of tab left	(F) uli cut blade type (P) artical cut blade type
	None None or 1 tab

Specifications

Printing method	Line thermal dot printing
Total dots	384 dots/line
Dot density	8 dots/mm
Printing width	48mm
Printing speed	Max. 400 dot-lines/sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
	Thermistor Photo-interrupter Mechanical switch
Voltage range	VH Vdd
	DC 4.2 — 8.5V DC 4.75 — 5.25V
Current	Head (VH = 5V) Motor (VH = 5V)
	Max. Approx. 2.3A Max. Approx. 0.5A
Recommended	Width
	58mm
paper	Thickness Paper (Manufacturer)
	60–72µm KF50-HAD (Shin-Oji)
Reliability	Head pulse-resistance Head wear-resistance
	50,000,000 pulses or more 50km or more
Environment	Operation
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH
	Storage
	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	75 × 56.5 × 21mm
Weight	Approx. 82g

Type Classification

LT-286

1) Model
LT-286

1) Model



MLT-288



- 58mm paper width
- 5V operation
- 52.5mm/sec printing speed
- Ultra compact design

Accessories

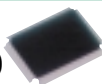
Control board

BD2-2880U



Gate array

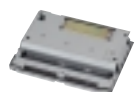
202LA-00



Interface	Parallel and RS-232C
Number of columns	Font A: 32 / Font B: 42
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	75 × 80mm
Source voltage	5.0 ±5%
Gate array	202LA-00

Auto cutter

ACS-228



Cutting method	Slide cutting
Paper width	45 — 69mm
thickness	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	5V ±10%
Current (peak)	2.8A
Operating temperature	0 — 45°C
Size	80 × 55.7 × 15mm
Weight	140g
Reliability	500,000 cuts
Number of tab left	(Full cut blade type) None
	(Partial cut blade type) None or 1 tab

Specifications

Specification		
Printing method		Line thermal dot printing
Total dots		384 dots/lines
Dot density		8 dots/mm
Printing width		48mm
Printing speed		Max. 420 dot-lines/sec
Paper feeding pitch		0.125mm
Sensors	Head temperature	Thermistor
	Paper presence	Photo-interrupter
	Head-up	Mechanical switch
Voltage range	VH	DC 4.2 — 8.5V
	Vdd	DC 4.75 — 5.25V
Current	Head (VH = 5V)	Max. Approx. 1.7A
consumption	Motor (VH = 5V)	Max. Approx. 0.5A
Recommended	Width	58mm
paper	Thickness	60 — 72μm
	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance	100,000,000 pulses or more
	Head wear-resistance	50km or more
Environment	Operation	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)		72.7 × 38 × 15mm
Weight		Approx. 45g

Type Classification

MLT-288 V

1) Model

2) Paper path

1) Model
MLT-288

2) Paper path
H: Curl
V: Straight

Line Thermal Printer Mechanisms



MLT-289



- 58mm paper width
- 5V operation
- 52.5mm/sec printing speed
- Ultra compact design
- Platen removable design

Accessories

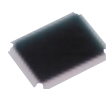
Control board

BD2-2890U



Gate array

202LA-00



Interface	Parallel and RS-232C
Number of columns	Font A: 32 / Font B: 42
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	75 × 80mm
Source voltage	5.0 ±5%
Gate array	202LA-00

Specifications

Printing method	Line thermal dot printing
Total dots	384 dots/lines
Dot density	8 dots/mm
Printing width	48mm
Printing speed	Max. 420 dot-lines/sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Platen
	Thermistor photo-interrupter Mechanical switch
Voltage range	VH Vdd
	DC 4.2 — 8.5V DC 4.75 — 5.25V
Current	Head (VH = 5V)
consumption	Motor (VH = 5V)
	Max. Approx. 1.7A Max. Approx. 0.5A
Recommended	Width
paper	Thickness Paper (Manufacturer)
	65μm TF50KS-E2C (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance
	100,000,000 pulses or more 50km or more
Environment	Operation Storage
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	76.8 × 37 × 16mm
Weight	Approx. 50g

Type Classification

MLT-289

1) Model
MLT-289

1) Model



Accessories

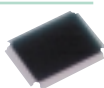
Control board

BD2-3880U



Gate array

202LA-00



Interface	Parallel and RS-232C
Number of columns	Font A: 48 / Font B: 64
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	80 × 90mm
Source voltage	5.0 ±5%
Gate array	202LA-00

Auto cutter

ACS-238



MLT-388



- 80mm paper width
- 5V operation
- 60mm/sec printing speed
- Ultra compact design

Specifications

Printing method	Line thermal dot printing
Total dots	576 dots/lines
Dot density	8 dots/mm
Printing width	72mm
Printing speed	Max. 480 dot-lines/sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
	Thermistor Photo-interrupter Mechanical switch
Voltage range	VH Vp Vdd
	DC 4.2 — 8.5V DC 4.2 — 8.5V DC 4.75 — 5.25V
Current	Head (Vp = 5V)
consumption	Motor (Vp = 5V)
Recommended	Width
paper	Thickness Paper (Manufacturer)
	65µm TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance
	10,000,000 pulses or more 50km or more
Environment	Operation
	Storage
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	99.5 × 41 × 21mm
Weight	Approx. 95g

MLT-389



- 80mm paper width
- 5V operation
- 60mm/sec printing speed
- Ultra compact design
- Platen removable design



Accessories

Control board

BD2-3890U



Gate array

202LA-00



Interface	Parallel and RS-232C
Number of columns	Font A: 32 / Font B: 42
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	75 × 80mm
Source voltage	5.0 ±5%
Gate array	202LA-00

Specifications

Printing method	Line thermal dot printing
Total dots	576 dots/lines
Dot density	8 dots/mm
Printing width	72mm
Printing speed	Max. 480 dot-lines/sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
	Thermistor Photo-interrupter Mechanical switch
Voltage range	VH Vp Vdd
	DC 4.2 — 8.5V DC 4.2 — 8.5V DC 4.75 — 5.25V
Current	Head (Vp = 5V)
consumption	Motor (Vp = 5V)
Recommended	Width
paper	Thickness Paper (Manufacturer)
	65µm TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance
	10,000,000 pulses or more 50km or more
Environment	Operation
	Storage
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	99.5 × 41 × 21mm
Weight	Approx. 95g

Type Classification

MLT-388

1) Model

1) Model
MLT-388
MLT-389

Line Thermal Printer Mechanisms

LT2220



- 58mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Thick paper up to 0.15mm(LT2220A)
- Compact design

Specifications

Printing method	Line thermal dot printing
Total dots	432 dots/lines
Dot density	8 dots/mm
Printing width	54mm
Printing speed	Max. 150mm /sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
Voltage range	VH Vdd
Current consumption	Head (Vp = 5V) Motor (Vp = 5V)
Recommended paper	Width Thickness
Reliability	Paper (Manufacturer) Head pulse-resistance Head wear-resistance
Environment	Operation Storage
External dimensions (W × D × H)	
Weight	

Accessories

● LT2220 is still available

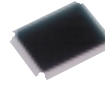
Control board

BD2-1220U
(Only for LT2220)



Gate array

202LA-00
(Only for LT2220)



Interface	Parallel and RS-232C
Number of columns	36/48
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	2k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ±5% and 24V ±5%
Gate array	202LA-00

Auto cutter

ACS-225



Cutting method	Slide cutting
Paper width	45 — 69mm
thickness	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	80 × 55.7 × 15mm
Weight	140g
Reliability	500,000 cuts
Number of tab left	(F)ull cut blade type (P)artial cut blade type
	None None or 1 tab

LT2320



- 80mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Thick paper up to 0.15mm(LT2320A)
- Compact design

Specifications

Printing method	Line thermal dot printing
Total dots	576 dots/lines
Dot density	8 dots/mm
Printing width	72mm
Printing speed	Max. 150mm /sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
Voltage range	VH Vdd
Current consumption	Head (Vp = 5V) Motor (Vp = 5V)
Recommended paper	Width Thickness
Reliability	Paper (Manufacturer) Head pulse-resistance Head wear-resistance
Environment	Operation Storage
External dimensions (W × D × H)	
Weight	

Accessories

● LT1320 is still available

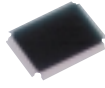
Control board

BD2-1220U
(Only for LT1320)



Gate array

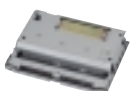
202LA-00
(Only for LT1320)



Interface	Parallel and RS-232C
Number of columns	48/64
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	4k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ±5% and 24V ±5%
Gate array	202LA-00

Auto cutter

ACS-235



Cutting method	Slide cutting
Paper width	50 — 89mm
thickness	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	500,000 cuts
Number of tab left	(F)ull cut blade type (P)artial cut blade type
	None None or 1 tab



Example for
KIOSK unit

Type Classification

LT2220HA

1) 2) 3) 4) 5) 6)

1) Printing speed
1: 80mm/sec
2: 150mm/sec

2) Paper width
2: 2inch
3: 3inch

3) Voltage
2: 24V

4) Type
0: Standard

5) Paper path
H: Curl
V: Straight

6) Paper thickness
None: Standard (60-105µm)
A: For thick paper (110-150µm)



● LT2221 is still available

Accessories

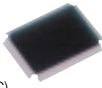
Control board

BD2-1221U
(Only for LT1221/1221C)



Gate array

202LA-00
(Only for LT1221/1221C)



Interface	Parallel and RS-232C
Number of columns	36/48
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	4k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ± 5% and 24V ± 5%
Gate array	202LA-00

Specifications for Auto cutter

(Auto cutter only for LT2221C)

Cutting method	Slide cutting
Paper width thickness	58mm 0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ± 10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	300,000 cuts
Number of tab left	(Full cut blade type) None (Partial cut blade type) None or 1 tab

LT2221 LT2221C



- 58mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Platen removable design
- Auto cutter equipped(LT2221C)
- Compact design

Specifications

Printing method	Line thermal dot printing
Total dots	432 dots/lines
Dot density	8 dots/mm
Printing width	54mm
Printing speed	Max. 150mm /sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Platen
	Thermistor Photo-sensor Mechanical Switch
Voltage range	VH Vdd
	DC 21.6 — 26.4V DC 4.75 — 5.25V
Current consumption	Head (Vp = 5V) Motor (Vp = 5V)
	Max. Approx. 5.2A Max. Approx. 0.41A
Recommended paper	Width Thickness
	58mm 60 — 105μm (Standard) 110 — 150μm (A type)
Reliability	Paper (Manufacturer) Head pulse-resistance Head wear-resistance
	TF50KS-E2C (Nippon Paper) etc. 50,000,000 pulses or more 50km or more
Environment	Operation Storage
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	91.5 × 58 × 20mm(LT2221) 101.3 × 61.5 × 37.2mm(LT2221C)
Weight	Approx. 85g(LT2221) Approx. 273g(LT2221C)



● LT1321 is still available

Accessories

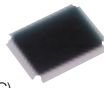
Control board

BD2-1221U
(Only for LT1321/1321C)



Gate array

202LA-00
(Only for LT1321/1321C)



Interface	Parallel and RS-232C
Number of columns	48/64
Font	Font A: 12 × 24 dots / Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	4k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ± 5% and 24V ± 5%
Gate array	202LA-00

Specifications for Auto cutter

(Auto cutter only for LT2321C)

Cutting method	Slide cutting
Paper width thickness	80mm 0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ± 10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	300,000 cuts
Number of tab left	(Full cut blade type) None (Partial cut blade type) None or 1 tab

LT2321 LT2321C



- 80mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Platen removable design
- Auto cutter equipped(LT2321C)
- Compact design

Specifications

Printing method	Line thermal dot printing
Total dots	576 dots/lines
Dot density	8 dots/mm
Printing width	72mm
Printing speed	Max. 150mm /sec
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Platen
	Thermistor Photo-sensor Mechanical Switch
Voltage range	VH Vdd
	DC 21.6 — 26.4V DC 4.75 — 5.25V
Current consumption	Head (Vp = 5V) Motor (Vp = 5V)
	Max. Approx. 5.2A Max. Approx. 0.41A
Recommended paper	Width Thickness
	80 mm 60 — 105μm (Standard) 110 — 150μm (A type)
Reliability	Paper (Manufacturer) Head pulse-resistance Head wear-resistance
	TF50KS-E2C (Nippon Paper) etc. 50,000,000 pulses or more 50km or more
Environment	Operation Storage
	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	108 × 58 × 20mm(LT2321) 119 × 61.5 × 37.2mm(LT2321C)
Weight	Approx. 97g(LT2321) Approx. 330g(LT2321C)

Type Classification

LT2221C

1) 2) 3) 4) 5)

1) **Printing speed**
1: 80mm/sec
2: 150mm/sec

2) **Paper width**
2: 2inch
3: 3inch

3) **Voltage**
2: 24V

4) **Type**
1: Removable platen model

5) **Cutter**
None: Standard
C: With cutter

Line Thermal Printer Mechanisms



LT-281



- 60mm paper width
- 24V operation
- 101.6mm/sec high-speed printing
- High reliability due to heavy duty design

Accessories

Auto cutter	AC-5/5F	ACS-229
Cutting method	Guillotine	Slide cutting
Paper width thickness	59.5 ± 0.5mm 0.065mm	45 — 69mm 0.06 — 0.15mm
Max. cutting frequency	6 cuts/min	20 cuts/min
Voltage	24V ± 10%	24V ± 10%
Current (peak)	1.3A	0.8A
Operating temperature	5 — 40°C	0 — 45°C
Size	70 × 55 × 31.7mm	80 × 55.7 × 15mm
Weight	160g	140g
Reliability	300,000 cuts	500,000 cuts
Number of tab left (Full cut blade type)	None or 1 tab	None
(Partial cut blade type)	Several tabs	None or 1 tab

Specifications

Printing method	Line thermal dot printing
Total dots	448 dots/lines
Dot density	8 dots/mm
Printing width	56mm
Printing speed	Max. 101.6mm/sec (813 dot-lines/sec)
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
	Thermistor Photo-interrupter Mechanical switch
Voltage range	Vp Vdd
	24V DC ± 5% 5V DC ± 5%
Current consumption	Head Motor
	0.9A 0.39A
Recommended paper	Width Paper (Manufacturer)
	59.5mm TF50SY-EY, TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance Mechanical life (MCBF)
	100,000,000 pulses or more 100km or more 23,600,000 lines
Environment	Operation
	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% RH
	Storage
	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	111.5 × 53.5 × 40.8mm
Weight	Approx. 300g



LT-481H

LT-481V

LT-481



- 112mm paper width
- 24V operation
- 100mm/sec high speed printing
- High reliability due to heavy duty design

Accessories

Auto cutter	AC-6	ACS-249
Cutting method	Guillotine	Slide cutting
Paper width thickness	111.5 ± 0.5mm 0.065mm	55 — 115mm 0.06 — 0.13mm
Max. cutting frequency	6 cuts/min	20 cuts/min
Voltage	24V ± 10%	24V ± 10%
Current (peak)	1A	0.8A
Operating temperature	5 — 40°C	0 — 45°C
Size	130 × 55 × 21.5mm	130 × 55.7 × 15mm
Weight	260g	220g
Reliability	300,000 cuts	300,000 cuts
Number of tab left (Full cut blade type)	None or 1 tab	None
(Partial cut blade type)	Several tabs	None or 1 tab

Specifications

Printing method	Line thermal dot printing
Total dots	832 dots/lines
Dot density	8 dots/mm
Printing width	104mm
Printing speed	Max. 100mm/sec (800 dot-lines/sec)
Paper feeding pitch	0.125mm
Sensors	Head temperature Paper presence Head-up
	Thermistor Photo-interrupter Mechanical switch
Voltage range	Vp Vdd
	24V DC ± 5% 5V DC ± 5%
Current consumption	Head Motor
	1.6A 0.48A
Recommended paper	Width Paper (Manufacturer)
	111.5mm TF50SY-EY, TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance Mechanical life (MCBF)
	100,000,000 pulses or more 100km or more 8,000,000 lines
Environment	Operation
	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% RH
	Storage
	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	161 × 60 × 41mm
Weight	Approx. 420g

Type Classification

LT-281

1) Model

1) Model
LT-281

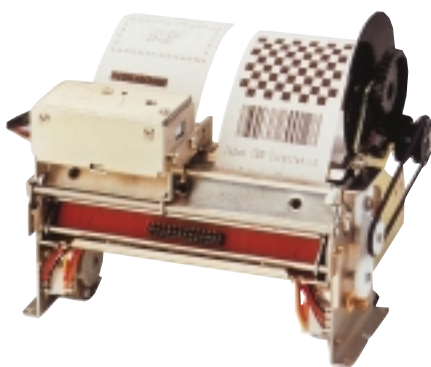
LT-481 H

1) Model

2) Paper path

1) Model
LT-481

2) Paper path
H: Curl
V: Straight



Accessories

Auto Cutter

AC-4P / 4F

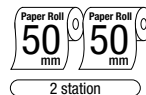
Cutting method	Guillotine
Paper width	49.5 ± 0.5mm
thickness	0.063mm
Max. cutting frequency	6 cuts/min
Voltage	24V ± 10%
Current (peak)	1.3A
Operating temperature	5 ~ 40°C
Size	60 ¥ 55 ¥ 23mm
Weight	260g
Reliability	300,000 cuts
Number of tab left (F)ull cut blade type (P)artial cut blade type	None or 1 tab Several tabs

Paper winder

AW-4H / 4V



LT-483

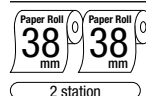


- 2 station printing
- 50+50mm paper width
- 24V operation
- 100mm/sec high speed printing
- High reliability due to heavy duty design

Specifications

Printing method		Line thermal dot printing
Total dots		832 dots/lines
Dot density		8 dots/mm
Printing width		44mm × 2
Printing speed		Max. 100mm/sec (800 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	Head temperature Paper presence Head-up	Thermistor Photo-interrupter Mechanical switch
Voltage range	Vp Vdd	24V DC ±5% 5V DC ±5%
Current	Head	1.2A
consumption	Motor	0.96A
Recommended	Width	49.5mm × 2
paper	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance Head wear-resistance	100,000,000 pulses or more 100km or more
Environment	Operation	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)		LT483: 155.2 × 60 × 71.5mm LT483CF: 155.2 × 67 × 98.9mm LT483CP: 155.2 × 67 × 100.2mm
Weight		LT483: Approx. 560g LT483CF: Approx. 750g LT483CP: Approx. 760g

LT1322



- 2 station printing
- 38+38mm paper width
- 24V operation
- 80mm/sec speed printing

Specifications

Printing method		Line thermal dot printing
Total dots		248 dots/lines × 2
Dot density		8 dots/mm
Printing width		38mm × 2
Printing speed		Max. 80mm/sec (640 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	Head temperature	Thermistor
	Paper presence	Photo-interrupter
	Head-up	Photo-sensor
Voltage range	Vp	24V DC ±10%
	Vdd	5V DC ±5%
Current	Head	4.5A
consumption	Motor	0.4A
Recommended	Width	38mm × 2
paper	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance	50,000,000 pulses or more
	Head wear-resistance	50km or more
Environment	Operation	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)		120 × 58 × 24.5mm
Weight		Approx. 97g

Type Classification

LT-483CF

1) 2) 3) 4) 5)

1) Size
4:4 inch class

2) Dot density
8:8 dots/mm

3) Type
483:2 station, 112mm, 24V

4) Cutter
C:With cutter
None: No Cutter

5) Power Source
F:Full cut blade
P:Partial cut blade

LT1322

1) 2) 3)

1) Size
3:3 inch class

2) Voltage
8:24V

3) Type
2: 2Station model

Impact Dot Matrix Printer Mechanisms

Despite the growth in demand for thermal printers, dot impact printers are still most appropriate for many applications and worldwide demand remains strong. Particularly well-suited to plain paper and high-speed printing, they are indispensable for check and validation and other such applications. As in its thermal printer development, Citizen Systems makes the most of its precision equipment technologies in the development of dot impact printers, drawing on its formidable strengths in this area to offer products that satisfy customers' dot impact printing needs fully and accurately.



MD-910 / 911



- 58mm paper width
- 5V operation
- 2.5 lines/sec printing speed
- Ultra compact design

Accessories

Control board

CBM-909-4D

(Only for MD-911)



Interface	Parallel and serial
Number of columns	40
Font	4 × 7 (including half dot)
Command set	Unique
Firmware location	Masked CPU
Buffer	1 line
Supporting devices	LF switch, On-line switch
Dimensions	80 × 55.5mm
Source voltage	4.0+0.7/-1.0V
Custom control chip	909PC-4DU

Control chip

909PC-4DU

(Only for MD-911)



Paper winder

AW-5

(not supported by CBM-909)



Ink ribbon

IR-91, IR-91L (Long life)



Specifications

Model	MD-910	MD-911
Printing method	Serial impact dot matrix	
Printing direction	One-way printing	
Printing speed	Approx. 2.5 lines/sec	Approx. 1.8 lines/sec
Number of columns	24 columns: 144 dots/line	40 columns: 180 dots/line
Font	5 × 7 matrix	4 × 7 matrix
Number of wires	8 pins (4 pins × 2 heads)	
Character size (W × H)	Approx. 1.7 × 2.4mm	Approx. 1.1 × 2.4mm
Character pitch	1.98mm (Interval of columns)	1.17mm (Interval of columns)
	3.52mm (Interval of lines)	3.52mm (Interval of lines)
Motor	Voltage: 5.0V DC / Peak current: Approx. 1A / Average current: 0.3A max.	
Dot pulse sensor	Photo interrupter	
Home pulse sensor	Leaf switch	
Printing sensor	Voltage: 5.0 V DC / Resistance: 1.7 ± 0.3Ω (25°C)	
Paper feeding solenoid	Voltage: 5.0 V DC / Resistance: 9 ± 2Ω (25°C)	
Connecting method	Copper foil patterns at 2.54mm pitch.	
Driving voltage	3.5 ~ 5.5V DC	
Printing paper	57.5 ± 0.5mm	
Copy	Original print + 1 copy	
Ink ribbon	Special ribbon cartridge of black or purple	
Paper feeding speed	Approx. 5 lines/sec	Approx. 3.6 lines/sec
External dimensions	90 × 45.5 × 16mm (W × D × H)	
Weight	105g ± 10%	
Operating temperature	0 ~ 50°C	
Storage temp. range	-25 ~ 70°C	
Reliability	MCBF: 1.5 million lines	MCBF: 1.0 million lines

Type Classification

MD-910-SS

1)

2)

1) Type
910: 24 columns
911: 40 columns

2) Knob
SS: No knob
HS: Horizontal knob
VS: Vertical knob



DP-320 / 330



- 58/76mm paper width
- 24V operation
- 5.6/4.3 lines/sec high-speed printing
- Logic seeking control
- 2 color printing

Accessories

Auto cutter

ACS-236



Cutting method	Slide cutting
Paper width	50 — 89mm
Paper thickness	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	500,000 cuts
Number of tab left	(Full cut blade type) None
	(Partial cut blade type) None or 1 tab

Ink ribbon

IR-31

*Six sensor positions are available.
Please contact dealer.



DP-420 / 430



- 76mm paper width
- 24V operation
- 3.0 lines/sec speed printing
- 2 color printing

Accessories

Auto cutter

ACS-234



Cutting method	Slide cutting
Paper width	50 — 89mm
Paper thickness	0.06 — 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 — 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	500,000 cuts
Number of tab left	(Full cut blade type) None
	(Partial cut blade type) None or 1 tab

Paper winder

AW-2FA

Ink ribbon

IR-41



Specifications

Model	DP-420	DP-430
Printing method	Serial impact dot matrix	
Printing direction	Bi-directional	
Printing speed	Approx. 3.0 lines/sec	
Number of columns	42 columns, 189 dots/line	
Font	7 × 7 matrix	7 × 9 matrix
Number of wires	7 pins	9 pins
Character size (W × H)	1.31 × 2.4mm	1.31 × 3.1mm
Character pitch	1.52mm	
Line spacing	4.23 or 2.82mm (1/6 or 1/9 inch) / Minimum 1.41mm (1/18 inch)	
Motor	Voltage: 24V ±5% V DC / Current: Peak Approx. 1A / Average less than 0.2A	
Reset pulse sensor	Photo interrupter	
Dot pulse sensor	Photo interrupter	
Home position sensor	Photo interrupter	
Paper out sensor	Photo interrupter	
Black mark sensor (option)	Photo interrupter	
Printing solenoid	Voltage: 24V ±5% V DC / Resistance: 17Ω (25°C)	
Printing feed solenoid	Voltage: 24V ±5% V DC / Resistance: 34Ω (25°C)	
Color change solenoid	Voltage: 24V ±5% V DC / Resistance: 34Ω (25°C)	
Connecting method	FFC or FPC cable	
Paper feeding	Friction feed or sprocket feed	
Printing paper	Friction feed: 76 ±0.5 × ø83mm	
Copy	Friction feed: original + 1 copy	
Ink ribbon	Exclusive ink ribbon cartridge / 2 color (Black/red), black or purple	
Paper feeding speed	Approx. 28 lines/sec	
External dimensions (W × D × H)	120 × 90 × 45mm	
Weight	Approx. 470g	
Operating temp. range	0 ~ 50°C	
Storage temp. range	-20 ~ 70°C	
Reliability	Mechanism: MCBF 2.5 million lines / Head: 80 million characters	

Type Classification

DP-320 D F V *

1) 2) 3) 4) 5)

1) Type

320: 58mm paper width
330: 76mm paper width

2) Ribbon

D: 2 color
M: 1 color

3) Paper feed method

F: Friction feed

4) Blackmark sensor volume

N: No volume
V: BM sensor volume

5) Blackmark sensor position

*Six sensor positions are available.
Please contact dealer.

DP-420-DF

1) 2) 3)

1) Type

420: 7 pin head
430: 9 pin head

2) Ribbon

D: 2 color

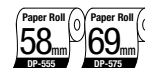
3) Paper feed method

F: Friction feed

Impact Dot Matrix Printer Mechanisms



DP-555 / 575



- 58/69mm paper width
- 1.9/1.2 lines speed printing
- 12/17V operation
- 2 color printing

Specifications

Model	DP-555	DP-575
Printing method	Serial impact dot matrix	
Printing direction	L Series Left to right (Horizontal), R Series Right to left (Horizontal)	
Printing speed	Approx. 1.9 lines/sec	Approx. 1.2 lines/sec
Number of columns	24 columns	40 columns
Font	5 × 7 matrix	
Character size (W × H)	1.7 × 2.75mm	1.25 × 2.75mm
Character pitch	2mm	1.5mm
Line spacing	5.5mm	
Motor	Voltage: 12V ±1V DC / Peak current: Approx. 2.5A (12V, 25°C) Average current: Approx. 0.25A	
Dot pulse sensor	Photo interrupter	
Home switch	Voltage: 5V DC / Current: 100µA ~ 3mA (Resistance load)	
Printing solenoid	Voltage: 12V ±1V DC / Resistance: 4.9 ±0.5Ω (25°C) Energized time: 2 dot pulses (700 ±50µs) / Peak current: Approx. 2A	
Main solenoid	Voltage: 12V ±1V DC / Resistance: 18.4 ±1Ω (25°C) Energized time: 16ms±10% (Max. of 5 continuous seconds)	
Color change solenoid	Voltage: 12V ±1V DC / Resistance: 18.4 ±1Ω (25°C) Energized time: 20 ±2ms (Max. of 5 continuous seconds)	
Connecting method	Flexible cable (SMCD 18 × 91 ES10)	
Ink ribbon	Color 2 colors (Red and black), black or purple Spool diameter: 30mm or 35mm, width: 13mm	
Paper feeding speed	Approx. 8 lines/sec	
Printing paper	57.5 ± 0.5mm	69 ± 1mm
External dimensions (W × D × H)	120.5 × 114 × 44.5mm	
Weight	Approx. 450g	
Operating temp. range	0 ~ 50°C	
Paper feeding traction	More than 100g (Citizen recommended paper)	
Reliability	Printer mechanism MCBF: 1.5 million lines / Dot head 50 million characters	

Accessories

Auto cutter

AC-3 / 3F



Cutting method	Guillotine
Paper width	76 ±0.5mm
thickness	0.06 — 0.085mm
Max. cutting frequency	20 cuts/min
Voltage	12V ±10%
Current (peak)	1.2A
Operating temperature	0 — 40°C
Size	93 × 74 × 25mm
Weight	200g
Reliability	300,000 cuts
Number of tab left	None or 1 tab
(Full cut blade type)	(Partial cut blade type)
	2 or 3 tabs

Paper winder

NW-58 (DP-555)

NW-69 (DP-575)



Ink ribbon

IR-01



DP-61XF



DP-61XP



DP-61XH

Accessories

Ink ribbon

IR-61



Paper winder

AW-2FA

Auto cutter

AC-2 / 2F

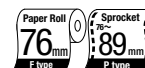


AC-134



Cutting method	Guillotine	Guillotine
Paper width	76 ±0.5mm	50 — 89mm
thickness	0.06 — 0.085mm	0.06 — 0.09mm
Max. cutting frequency	20 cuts/min	20 cuts/min
Voltage	24V ±10%	24V ±10%
Current (peak)	0.8A	0.8A
Operating temperature	0 — 40°C	0 — 45°C
Size	99 ¥ 74 ¥ 30mm	120 ¥ 57 ¥ 15mm
Weight	200g	160g
Reliability	300,000 cuts	300,000 cuts
Number of tab left	None or 1 tab	None or 1 tab
(Full cut blade type)	(Partial cut blade type)	
	2 or 3 tabs	2 or 3 tabs

DP-61X SERIES



- 76mm paper width
- 2 color printing
- 24V operation
- Sprocket feeding model (P type)
- 3.0 lines/sec speed printing (DP-614)

Specifications

Model	DP-610	DP-612	DP-614	DP-617
Printing method	Serial impact dot matrix			
Printing direction	Bi-directional			
Printing speed	Approx. 4.0 lines/sec	Approx. 3.5 lines/sec	Approx. 3.0 lines/sec	Approx. 2.4 lines/sec
Number of columns	23 columns, 230 dots/line	28 columns, 280 dots/line	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 9 matrix			
Character size (W × H)	1.8 × 2.4mm	1.5 × 2.4mm	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	1/6 inch			
Motor	Voltage: 24V DC / V DC / Peak current: Max. 21A (12V, 25°C) / Average current: Approx. 0.2A or less			
Dot pulse sensor	Photo interrupter			
Home position sensor	Photo interrupter			
Paper feeding motor	Voltage: 24V DC / V DC / Resistance: 48Ω (25°C) / Driving pulse width: 30 DP, Approx. 20ms			
Printing solenoid	Voltage: 24V ±1V DC / Resistance: 17Ω (24V DC, 25°C)			
Color change solenoid	Voltage: 24V DC / V DC / Resistance: 48Ω (24V DC, 25°C)			
Connector terminals	Connector 1 (S16B-PH-K-S (16P): Counterpart PHR-16 (16P) manufactured by JST) Connector 2 (S10B-PH-K-SC (10P): Counterpart PHR-10 (10P) manufactured by JST)			
Paper feeding	Friction feed or sprocket feed			
Printing paper	Friction feed: 76mm Roll paper × φ83mm / Sprocket feed: 76 — 89mm fanfold paper			
Copy	Friction feed: original + 1 copy / Sprocket feed: original + 2 copies			
Paper feed power	More than 100g (Citizen recommended paper)			
Ink ribbon	Two colors (Red and black) / Single color (Black or purple)			
Paper feeding speed	Approx. 25 lines/sec	Approx. 21 lines/sec	Approx. 18 lines/sec	Approx. 15 lines/sec
External dimensions (W × D × H)	Two colors: 137 × 136 × 63.5mm / Single color: 134 × 136 × 63.5mm			
Weight	Approx. 690g			
Operating temp. range	0 ~ 50°C			
Reliability	Printer: MCBF 4.0 million lines / Head: 80 million characters			

Type Classification

DP-575 L 12 A

1) 2) 3) 4)

1) Type

555: 24 columns
575: 40 columns

2) Printing direction

L: Left to right
R: Right to left

3) Voltage

12: 12V
17: 17V

4) Special feature

None: Regular model
A: Cassette ribbon model

DP-614 D F V V

1) 2) 3) 4) 5)

1) Type

610: 23 columns
612: 28 columns
614: 40 columns (360dots)
617: 40 columns (400dots)

2) Ribbon

D: 2 color
M: 1 color

3) Paper feeding method

F: Friction feeding
P: Sprocket feeding

4) Character / Graphic

C: Character only
G: Graphic

5) Validation sensor

None: No validation
V: Equipped



Accessories

Ink ribbon

IR-61



Paper winder

AW-2FA

Auto cutter

AC-2 / 2F

AC-134



Auto cutter	AC-2 / 2F	AC-134
Cutting method	Guillotine	Guillotine
Paper width	76±0.5mm Ma	50 — 89mm
thickness	0.06 — 0.085mm	0.06 — 0.09mm
Max. cutting frequency	20 cuts/min	20 cuts/min
Voltage	24V ±10%	24V ±10%
Current (peak)	0.8A	0.8A
Operating temperature	0 — 40°C	0 — 45°C
Size	99 ¥ 74 ¥ 30mm	120 ¥ 57 ¥ 15mm
Weight	200g	160g
Reliability	300,000 cuts	300,000 cuts
Number of tab left (Full cut blade type (Partial cut blade type	None or 1 tab 2 or 3 tabs	None or 1 tab 2 or 3 tabs



DP-62X



DP-61XP

Accessories

Ink ribbon

IR-61



Paper winder

AW-2FA

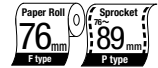
Auto cutter

AC-134 / 134F



Cutting method	Guillotine
Paper width	50 — 89mm
thickness	0.06 — 0.09mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 — 40°C
Size	102 ¥ 57 ¥ 15mm
Weight	160g
Reliability	300,000 cuts
Number of tab left (Full cut blade type (Partial cut blade type	None or 1 tab 2 or 3 tabs

DP-654 / 657

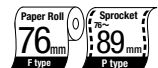


- 76mm paper width
- 24V operation
- 3.6 lines/sec speed printing(DP-654)
- 2 color printing
- Sprocket feeding model (P type)

Specifications

Model	DP-654	DP-657
Printing method	Serial impact dot matrix	
Printing direction	Bi-directional	
Printing speed	3.6LPS ±10%	3.0LPS ±10%
Number of columns	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 7 or 7 × 9 (half-dot)	
Character size (W × H)	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	1/6 inch	1/9 inch (DR617DFG)
Motor	Voltage: 24V V DC / Peak current: Approx. 1.5A / Average less than 0.3A	
Reset pulse sensor	Mechanical leaf switch	
Dot pulse sensor	Photo interrupter	
Home position sensor	Photo interrupter	
Printing solenoid	Voltage: 24V ±1V DC / Resistance: 17Ω (24V DC, 25°C)	
Paper feeding solenoid	Voltage: 24V DC Resistance: 33Ω ±10%	
Connector terminals	Connector 1 (S168-PH-K-S (16P): Counterpart PHR-16 (16P) manufactured by JST) Connector 2 (S108-PH-K-SC (8P): Counterpart PHR-10 (8P) manufactured by JST)	
Connecting method	Pin connector	
Paper feeding	Friction feeding or sprocket feeding	
Ink ribbon	Dedicated ink ribbon cartridge (Red/Black or single color Black)	
Paper feeding speed	18 lines/sec	
Printing paper	Receipt and journal 37 ~ 38mm, Outer dia Max. φ83mm	
External dimensions (W × D × H)	137 × 138 × 63.5mm	
Weight	Approx. 690g	
Operating temp. range	0 ~ 50°C	
Storage temp. range	-25 ~ 70°C	
Reliability	Mechanism: MCBF 4.0 million lines / Head: 80 million characters	

DP-62X SERIES



- 76mm paper width
- 24V operation
- 3.6 lines/sec speed printing(DP-654)
- 2 color printing
- Sprocket feeding model (P type)

Specifications

Model	DP-622	DP-624	DP-627
Printing method	Serial impact dot matrix		
Printing direction	Bi-directional		
Printing speed	Approx. 4.2 lines/sec	Approx. 3.6 lines/sec	Approx. 3.0 lines/sec
Number of columns	28 columns, 280 dots/line	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 9 matrix		
Character size (W × H)	1.5 × 2.4mm	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	Min. 1/144 inch		
Motor	Voltage: 24V DC V DC / Peak current: Max. 1.5A Average current: Approx. 0.3A or less		
Dot pulse sensor	Photo interrupter		
Home position sensor	Photo interrupter		
Paper feeding motor	4 shase 48 poles permanent magnet type stepping motor 24V DC ±10% (Drive voltage) / 5V DC ±15% (Hold voltage) Mean current: Approx. 300mA / Hold current: Approx. 150mA		
Printing solenoid	Voltage: 24 ±1V DC / Resistance: 17Ω (24V DC, 25°C)		
Connector terminals	Connector 1 (53156-1710 (17P): Counter part 51049-1700 (17P) manufactured by Molex) Connector 2 (53015-0610 (6P): Counter part 51004-0600 (6P) manufactured by Molex) Connector 3 (51004-0600 (6P): Counter part 57014-0610 (6P) manufactured by Molex)		
Paper feeding	Friction feeding or sprocket feeding		
Printing paper	Friction feeding: 76mm roll paper × ø83mm / Sprocket feeding: 76~89mm fanfold paper		
Copy	Friction feeding: original + 1 copy / Sprocket feeding: original + 2 copies		
Paper feeding power	More than 100g (Citizen recommended paper)		
Ink ribbon	Single color (Black or purple)		
Paper feeding speed	Approx. 25 lines/sec		
External dimensions (W × D × H)	140.9 × 153.2 × 63.5mm		
Weight	Approx. 730g		
Operating temp. range	0 ~ 50°C		
Reliability	Printer: MCBF 5.0 million lines / Head: 80 million characters		

Type Classification

DP-654DFCV

1) 2) 3) 4) 5)

1) Type

654: 40 columns (360dots)

657: 40 columns (400dots)

3) Paper feeding method

F: Friction feeding

P: Sprocket feeding

C: Character only

G: Graphic

V: Equipped

None: No validation

V: Equipped

DP-624MPCS

1) 2) 3) 4) 5)

1) Type

622: 28 columns

624: 40 columns (360 dots)

627: 40 columns (400 dots)

2) Ribbon

M: 1 color

S: with sensor

3) Paper feeding method

F: Friction feeding

P: Sprocket feeding

4) Copy capability

None: No sensor

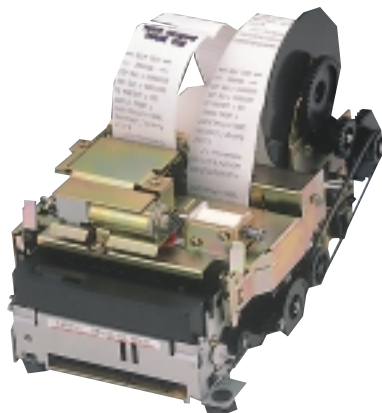
S: with sensor

5) Auto loading sensor

None: No sensor

S: with sensor

Impact Dot Matrix Printer Mechanisms



Options

- Validation sensor
- Paper winder
- Mark sensor
- Auto cutter
- Paper near end sensor
- Stamp

Accessories

Paper winder
PW-2

Ink ribbon
IR-61



Options

- Validation sensor
- Paper winder
- Mark sensor
- Auto cutter
- Paper near end sensor
- Stamp

Accessories

Ink ribbon
IR-71

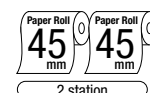


DP-630

- 2 station printing
- 3.0 lines/sec speed printing
- 38+38mm paper width
- Validation printing (option)
- 24V operation

Specifications

Model	DP-630
Printing method	Serial impact dot matrix
Printing direction	Bi-directional
Font	7 × 9 matrix
Number of columns (validation)	18 columns × 2 (40 columns)
Number of total dot/line (half dot)	180 (360) dots
Number of wires	9 pins (dot pitch 0.353mm)
Printing speed	Approx. 3.0 lines/sec
Character size (W × H)	1.36 × 2.4mm
Line spacing	5.08mm
Character pitch	Character = 1.59mm
Ink ribbon	Exclusive ink ribbon cartridge (single color, black or purple) IR-61
Motor	Voltage: 24V +1/-2V DC / Current: Peak Approx. 1A Average less than 0.2A
Reset pulse sensor	Mechanical leaf switch
Dot pulse sensor	Photo interrupter
Home position sensor	Photo interrupter
Printing solenoid	Voltage: 24V ±1V DC Resistance: 17Ω
Paper feeding solenoid	Voltage: 24V +1/-2V DC Resistance: 32Ω ±10%
Connecting method	Pin connector
Paper feeding	Friction feed
Printing paper Receipt and journal	37 — 38mm / Outer dia Max. φ83mm
Paper feeding speed	18 lines/sec
External dimensions (W × D × H)	134 × 136 × 63.5mm
Weight	Approx. 690g
Operating temp. range	0 ~ 50°C
Storage temp. range	-25 ~ 70°C
Reliability	Mechanism Head MCBF 2.5 million lines 50 million characters



DP-730

- 2 station printing
- 3.0 lines/sec speed printing
- 45+45mm paper width
- Validation printing (option)
- 24V operation

Specifications

Model	DP-730
Printing method	Serial impact dot matrix
Printing direction	Bi-directional
Font	7 × 9 matrix
Number of columns (validation)	24 columns × 2 (55 columns)
Number of total dot/line (half dot)	248 (495) dots
Number of wires	9 pins (dot pitch 0.353mm)
Printing speed	Approx. 3.0 lines/sec
Character size (W × H)	1.36 × 2.4mm or 1.36 × 3.1mm
Line spacing	4.23mm (1/6 inch)
Character pitch	Character = 1.59mm
Ink ribbon	Exclusive ink ribbon cartridge (single color, black or purple) IR-71
Motor	Voltage: 24V ±10% / Current: Peak Approx. 2.5A Average less than 0.45A
Reset pulse sensor	Mechanical leaf switch
Dot pulse sensor	Photo interrupter
Home position sensor	Photo interrupter
Printing solenoid	Voltage: 24V ±10% / Resistance: 10.5Ω ±10%
Paper feeding solenoid	Voltage: 24V ±10% / Resistance: 34Ω ±10%
Connecting method	Pin connector
Paper feeding	Friction feed
Printing paper Receipt and journal	44.5 ±0.5mm / Outer dia Max. φ83mm
Validation	135 — 210 (W) × 70 (H) mm
Paper feeding speed	30 lines/sec
External dimensions (W × D × H)	151 × 234.6 × 123.7mm
Weight	Approx. 1,250g
Operating temp. range	0 ~ 50°C
Storage temp. range	-25 ~ 70°C
Reliability	Mechanism Head MCBF 4 million lines 100 million characters

Type Classification

DP-630 V-S C
1) 2) 3)

- 1) Validation sensor
V: Equipped
None: No validation sensor
- 2) Stamp
S: Equipped
None: No stamp
- 3) Cutter
C: Equipped
None: No cutter

DP-730 F R C B
1) 2) 3)

- 1) Validation sensor
R: No validation sensor
M: Multi-line validation sensor
P: 1 line L/R sensor
None: 1 line right sensor
- 2) Cutter
C: Equipped
None: No cutter
- 3) Winder
C: Equipped
None: No cutter

Printer Mechanisms Lineup

Line Thermal Printer Mechanisms

LT-286

- 58mm paper width
- 5V operation
- 50mm/sec printing speed
- Compact design

▶ P23



MLT-288

- 58mm paper width
- 5V operation
- 52.5mm/sec printing speed
- Ultra compact design

▶ P24



LT-289

- 58mm paper width
- 5V operation
- 52.5mm/sec printing speed
- Ultra compact design
- Platen removable design

▶ P25



MLT-388

- 80mm paper width
- 5V operation
- 60mm/sec printing speed
- Ultra compact design

▶ P26



MLT-389

- 80mm paper width
- 5V operation
- 60mm/sec printing speed
- Ultra compact design
- Platen removable design

▶ P26



LT2220

- 58mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Thick paper up to 0.15mm (LT2220A)
- Compact design

▶ P27



LT2320

- 80mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Thick paper up to 0.15mm (LT2320A)
- Compact design

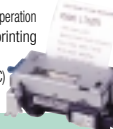
▶ P27



LT2221 / 2221C

- 58mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Platen removable design
- Auto cutter equipped (LT2221C)
- Compact design

▶ P28



LT2321 / 2321C

- 80mm paper width
- 24V operation
- 150mm/sec high-speed printing
- Platen removable design
- Auto cutter equipped (LT2321C)
- Compact design

▶ P28



LT-281

- 60mm paper width
- 24V operation
- 101.6mm/sec high-speed printing
- High reliability due to heavy duty design

▶ P29



LT-481

- 112mm paper width
- 24V operation
- 100mm/sec high speed printing
- High reliability due to heavy duty design

▶ P29



LT-483

- 2 station printing
- 50+50mm paper width
- 24V operation
- 100mm/sec high speed printing
- High reliability due to heavy duty design

▶ P30



LT1322

- 2 station printing
- 38+38mm paper width
- 24V operation
- 80mm/sec speed printing

▶ P30

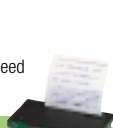


Impact Dot Matrix Printer Mechanisms

MD-910 / 911

- 58mm paper width
- 5V operation
- 2.5 lines/sec printing speed
- Ultra compact design

▶ P31



DP-320 / 330

- 58/76mm paper width
- 24V operation
- 5.6/4.3 lines/sec high-speed printing
- Logic seeking control
- 2 color printing

▶ P32



DP-420 / 430

- 76mm paper width
- 24V operation
- 3.0 lines/sec speed printing
- 2 color printing

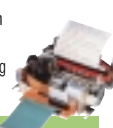
▶ P32



DP-555 / 575

- 58/69mm paper width
- 12/17V operation
- 1.9/1.2 lines speed printing
- 2 color printing

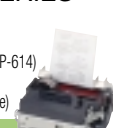
▶ P33



DP-61X SERIES

- 76mm paper width
- 24V operation
- 3.0 lines/sec speed printing (DP-614)
- 2 color printing
- Sprocket feeding model (P type)

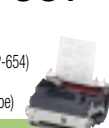
▶ P33



DP-654 / 657

- 76mm paper width
- 24V operation
- 3.6 lines/sec speed printing (DP-654)
- 2 color printing
- Sprocket feeding model (P type)

▶ P34



DP-62X SERIES

- 76mm paper width
- 24V operation
- 3.6 lines/sec speed printing (DP-654)
- 2 color printing
- Sprocket feeding model (P type)

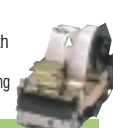
▶ P34



DP-630

- 2 station printing
- 38+38mm paper width
- 24V operation
- 3.0 lines/sec speed printing
- Validation printing (option)

▶ P35



DP-730

- 2 station printing
- 45+45mm paper width
- 24V operation
- 3.0 lines/sec speed printing
- Validation printing (option)

▶ P35



Accessories / Options

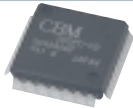
Control boards

Model	Printer mechanism	Interface	Number of columns	Font	Command set	Bar-code	Firmware location	Buffer	Supporting devices	Dimensions (W×D)	Source voltage	Custom control chip	Gate array
BD2-1220/1221 	LT1220/1320/ 1221/1321	Parallel and RS-232C	LT1220/1221 : 32/42 LT1320/1321 : 48/64	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	4K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	90 × 65mm	5V ±5% and 24V ±5%	—	202LA-00
BD2-2860 	LT-286	Parallel and RS-232C	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Masked CPU	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	80 × 80mm	5V ±5%	202PC-04	202LA-00
BD2-2880/2890 	MLT- 288/289	Parallel and RS-232C	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	80 × 75mm	5V ±5%	—	202LA-00
BD2-3880/3890 	MLT- 388/389	Parallel and RS-232C	Font A: 48 Font B: 64	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	90 × 80mm	5V ±5%	—	202LA-00
BD1-3000 	DP-320/330	Parallel and RS-232C, USB	DP-320: 30 DP-330: 42	7 × 9	ESC/ POS	—	Flash memory	4K/ 40 bytes	Auto cutter Auto winder Paper end sensor Paper near end sensor LED's (Power/Error/On-line) Switches(LF/On-line)	132 × 126mm	5V ±5% and 24V ±5%	—	—
CBM-909 	MD-911	Parallel and serial	MD-911: 40	MD-911: 4×7 (including half dot)	Unique	—	Masked CPU	1 line	LF switch On-line switch	80×55.5mm	4V +0.7~1.0V	909PC-4D	—

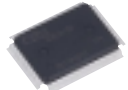
*ESC/POS is a trademark of Seiko Epson Corporation.

Control Chip / Gate Array

Control Chip

Model	202PC-04	909PC-4DU
Printer mechanism	LT-286	MD-911
		

Gate Array

Model	202LA-00
Printer mechanism	LT-series
	

Cutters

Model	Cutting Method	Paper width thickness	Max. cutting frequency	Voltage	Current (peak)	Operating temperature	Size	Weight	Reliability	Number of tab left (F)ull cut blade type (P)article cut blade type	Applicable mechanism (cutter model name with mounting bracket and paper guide)
AC-120 	Guillotine	38 — 69mm 0.06—0.09mm	20cuts/min	24V±10%	0.8A	0 — 45°C	80×57×15mm	130g	300,000cuts	None or 1 tab 2 or 3 tabs	LT1220/2220(AC-125)
AC-130 	Guillotine	50 — 89mm 0.06—0.09mm	20cuts/min	24V±10%	0.8A	0 — 45°C	102×57×15mm	160g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-6XX(AC-134) LT1320/2320 (AC-135)
ACS-220 	Slide cutting	45 — 69mm 0.06—0.15mm	20cuts/min	24V±10%	0.8A	0 — 45°C	80×55.7×15mm	140g	500,000cuts	None None or 1 tab	LT-286 (ACS-224) 5V LT1220/2220(AC-225) MLT-288 (ACS-228) 5V LT-281 (ACS-229)
ACS-230 	Slide cutting	50 — 89mm 0.06—0.15mm	20cuts/min	24V±10%	0.8A	0 — 45°C	102×55.7×15mm	180g	500,000cuts	None None or 1 tab	DP-420/430 (ACS-234) LT1320/2320(ACS-235) MLT-388 (ACS-238) 5V DP-320/330 (ACS-236)
ACS-240 	Slide cutting	55 — 115mm 0.06—0.13mm	20cuts/min	24V±10%	0.8A	0 — 45°C	130×55.7×15mm	220g	300,000cuts	None None or 1 tab	LT-481 (ACS-249)
AC-2 	Guillotine	76 ± 0.5mm 0.06—0.085mm	20cuts/min	24V±10%	0.8A	0 — 40°C	99×74×30mm	200g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-6XX (AC-2)
AC-3 	Guillotine	76 ± 0.5mm 0.06—0.085mm	20cuts/min	12V±10%	1.2A	0 — 40°C	93×74×25mm	200g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-5XX (AC-3)
AC-4 	Guillotine	49.5 ± 0.5mm 0.063mm	6cuts/min	24V±10%	1.3A	5 — 40°C	60×55×23mm	260g	300,000cuts	None or 1 tab several tabs	LT-483 (AC-4)
AC-5 	Guillotine	59.5 ± 0.5mm 0.065mm	6cuts/min	24V±10%	1.3A	5 — 40°C	70×55×31.7mm	160g	300,000cuts	None or 1 tab several tabs	LT-281 (AC-5)
AC-6 	Guillotine	111.5 ± 0.5mm 0.065mm	6cuts/min	24V±10%	1A	5 — 40°C	130×55×21.5mm	260g	300,000cuts	None or 1 tab several tabs	LT-481 (AC-6)

Ribbons

Model	IR-01 RB/BL/P	IR-31 RB/B/P	IR-41 RB/B/P	IR-61 RB/B/P	IR-71P	IR-82P	IR-91 P/B IR-91 L (ling life)
Mini printers	—	CD-S500/501/503	DP3420/3421/3423	DP3550/3551	—	CBM-820	CBM-910/920
Printer mechanism	DP-555/575	DP-320/330	DP-420/430	DP-6XX	DP-730	—	MD-910/911
							

Winders

Model	NW-58 NW-69	AW-5
Printer mechanism	DP-555/575	MD-910/911
		

Accessories / Options

Accessory Reference Table

Line Thermal Printer Mechanisms

Model		LT-286	MLT-288	MLT-388	LT2220	LT2320	LT2221	LT2321	LT-281	LT-481	LT-483
Ribbon	IR-01RB/B/P										
	IR-31RB/B/P										
	IR-41RB/B/P										
	IR-61RB/B/P										
	IR-61B/P										
	IR-71P										
	IR-82P										
	IR-91B/P										
Cutter	AC-12X										
	AC-13X										
	AC-22X								ACS-229		
	ACS-22X(5V)	ACS-224	ACS-228		ACS-228						
	ACS-23X					ACS-228					
	ACS-23X(5V)										
	ACS-24X									ACS-249	
	AC-2										
	AC-3										
	AC-4										
	AC-5								●		●
Winder	AC-6									●	
	NW-58										
	NW-69										
	PW-2										
	AW-2										
	AW-2FA										
	AW-3										
	AW-4										●
	AW-5										

Impact Dot Matrix Printer Mechanisms

Model		MD-910 MD-911	DP-320 DP-330	DP-420 DP-430	DP-555 DP-575	DP-61X	DP-65X	DP-62X	DP-630	DP-730
Ribbon	IR-01RB/B/P				●					
	IR-31RB/B/P		●							
	IR-41RB/B/P			●						
	IR-61RB/B/P					●	●			
	IR-61B/P							●	●	
	IR-71P									●
	IR-82P									
	IR-91B/P	●								
Cutter	AC-12X									
	AC-13X					AC-134	AC-134	AC-134		
	ACS-22X									
	ACS-22X(5V)									
	ACS-23X		ACS-236	ACS-234						
	ACS-23X(5V)									
	ACS-24X									
	AC-2					●	●			
	AC-3				●					
	AC-4									
	AC-5									
Winder	AC-6									
	NW-58				●					
	NW-69				●					
	PW-2									
	AW-2								●	
	AW-2FA			●		●	●	●		
	AW-3									
	AW-4									
	AW-5	●								

Peripherals



Cash Drawers

- 8 coin drawer
420(W) × 450(D) × 98(H) mm
- 5 coin drawer
420(W) × 420(D) × 98(H) mm

Model Classification

23 8 5 E-DR-MS
(1) (2)(3)(4) (5)

- | | |
|---------------------------------------|---|
| (1) Connector
23 - Modular (RJ-11) | (4) Key option
E : 3 position key
None : 2 position key |
| (2) Number of coins
8 or 5 | (5) Microswitch option
MS: Microswitch equipped
None : No microswitch |
| (3) Number of bills
5 or 4 | |



Customer Display

- 8 coin drawer
420(W) × 450(D) × 98(H) mm
- 5 coin drawer
420(W) × 420(D) × 98(H) mm

Specifications

MODEL	C2202-PD
Display method	Vacuum fluorescent display
Display color	Blue green
Number of character	20 columns x 2 lines
Brightness	700 cd/m2
Character font	5 x 7 dot matrix, comma, decimal point
Character size	9.2 x 5.25 mm
Character pitch	8.3 mm
Code page	PC-437 / 850 / 860 / 863 / 865, Slavonic, Russian, Katakana
Emulation	CBM standard, ESC/POS
Interface	RS-232C (with path through function)
Power supply	12V DC
Power consumption	4.5 W
MTBF	25,000 hours
Dimensions	230(W) x 100(H) x 42(D) mm
Viewing angle	±30 degrees
Rotation angle	Maximum 270 degrees
Weight	0.9 kg
Safety	FCC class B, CE

Included items

- Display unit
- AC adapter
- Base unit
- AC cable
- Short pole
- Long pole
- Interface cable
(DB25 female - DB9 male)
- User's manual



Available in black

Accessory Reference Table

Complete Printers

Model	CT-S300 CT-S2000 CBM1000 Type II CT-S4000 CBM-262 Type II	CD-S500 CD-S501 CD-S503	iDP3550 iDP3551	iDP3420 iDP3421 iDP3423	CBM-910 Type II CBM-920	CBM-820
RIBBON	—	IR-31RB/B/P	IR-61RB/B/P	IR-41RB/B/P	IR-91B/P	IR-82P
WINDER	—	●(CD-S503)	AW-3	●(iDP3423)	—	—
DRAWER	23XXDR	23XXDR	23XXDR	23XXDR	—	23XXDR

Printer Mechanisms

Impact Dot Matrix

Model	MD-910 MD-911	DP-320 DP-330	DP-420 DP-430	DP-555 DP-575	DP-614	DP-62X	DP-630	DP-730
RIBBON	IR-91B/P	IR-31RB/B/P	IR-41RB/B/P	IR-01RB/B/P	IR-61RB/B/P	IR-61RB/B/P	IR-61RB/B/P	IR-71P
CUTTER	—	—	ACS-234	AC-3 ACS-236	AC-134 ACS-236 AC-2	AC-134	—	AC-5 AC-7
WINDER	AW-5	AW-2FA	AW-2FA NW-69	NW-58	AW-2FA	AW-2FA	AW-2	—

Line Thermal

LT-286	MLT-288	MLT-289	LT1220 LT2220	LT1221 LT2221	LT1320 LT2320	LT1321 LT2321	LT-481	LT-281	LT-483
—	—	—	—	—	—	—	—	—	—
ACS-224	ACS-228	—	ACS-225	—	ACS-235	—	ACS-249	ACS-229 AC-5	—
—	—	—	—	—	—	—	—	—	AW-4



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