

Pinout

The Null Modem Cable allowing the RS232 connection has the following pinout:

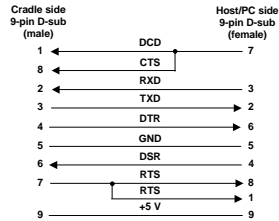


Figure 8 – Null Modem Cable Pinout

TECHNICAL FEATURES

Datalogic J Series™ Vehicle Cradle	
<b>Electrical Features</b>	
Power Supply	from 10 to 32 VDC
Consumption (with PDA)	Max. 1.5 A
Quiescent Consumption (without PDA)	Max. 5 mA
Indicators	Power on LED (green)
Charge Time (when PDA is off)	Li-Ion Battery: max. 2.5 hours
<b>Communication Features</b>	
Interface	RS232
Baud Rate	RS232 = up to 115200 b/sec
<b>Environmental Features</b>	
Working Temperature*	0° to +50 °C / +32° to +140 °F
Storage Temperature	-20° to +70 °C / -4° to +158 °F
Humidity	90% non condensing
Degree of Protection	IP30
Vibration Resistance**	EN60068-2-64 frequency range 5-1000 Hz; acceleration RMS: 3.1 g; initial slope: 26dB/oct 5-10 Hz; final slope: -3dB/oct 10-1000 Hz
Shock Resistance	EN60068-2-29 – ±25g, 6ms duration, 500 shock impacts per axis
<b>Mechanical Features</b>	
Dimensions	240 x 79 x 48 mm / 9.45 x 3.1 x 1.9 in
Weight	(about) 200 g / 7.05 oz

\* Battery must be charged at a temperature ranging from 0° to +45 °C (+32° to +113 °F).

\*\* for screw mounting.

FCC COMPLIANCE

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use this equipment.

The device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Datalogic J Series™ Vehicle Cradle

The Datalogic J Series™ Vehicle Cradle allows charging the Datalogic J Series™ PDA battery and holding it securely in your vehicle. It also functions as a serial communication interface between a Host (typically a Laptop PC) and the RS232 contacts on the PDA.

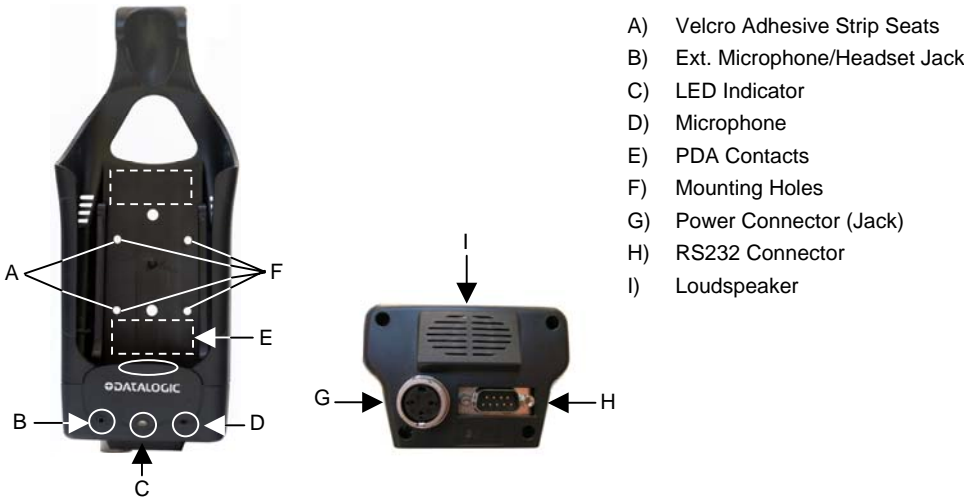


Figure 1 – Datalogic J Series™ Vehicle Cradle

External microphone/headset jack, microphone and speaker allow managing a vocal communication (see related paragraph on next page). In particular, two different cradle models are available:

- Loudspeaker model: vocal communication available through either the built-in speaker and microphone or a hands free head-set;
- Standard model: communication available only through hands free head-set.

MOUNTING THE DATALOGIC J SERIES™ VEHICLE CRADLE

The Datalogic J Series™ Vehicle Cradle can be mounted to the desired surface using either the 4 adhesive Velcro strips or the 4 screws.

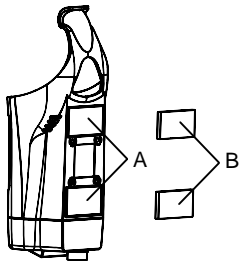


Figure 2 – Mounting with Velcro Strips

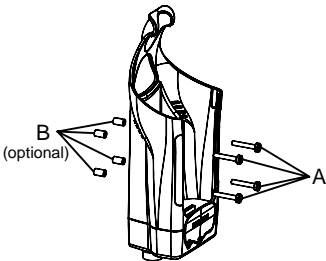


Figure 3 – Mounting with Screws

### **Mounting with Velcro Adhesive Strips (see Figure 2)**

This procedure is suggested when mounting the cradle on flat surfaces:

1. Select a mounting location allowing an easy access to the cradle connector panel;
2. Carefully clean the adhesive strip seat of the rear of the cradle (see Figure 1) to remove any impurities that could reduce adhesion;
3. Remove the protection film from the adhesive side of two of the available Velcro strips and stick them on the cradle surface, see Figure 2, A;
4. Remove the protection film from the adhesive side of the two remaining Velcro strips and stick them on the vehicle surface (smooth and clean for better adhesion), see Figure 2, B;
5. Affix the cradle to the vehicle surface.

### **Mounting with Screws (see Figure 3)**

This procedure is suggested when mounting the cradle on curved surfaces. It is possible to use 4 self-tapping screws or 4 screws with nuts according to the user's needs:

1. Select a mounting location allowing an easy access to the cradle connector panel;
2. Insert the four screws in the cradle mounting holes, see Figure 3, A;
3. One or more spacers can be used optionally to compensate for mounting to irregular surfaces, see Figure 3, B;
4. Affix the assembly to the vehicle surface by means of the four screws (tighten with nuts if not using self-tapping screws).

### **ACCESSORIES**

94A051013	WIN-NET VEHICLE POWER CAB (CRADLE)	Cable containing an 8A slow-blow fuse for powering the vehicle cradle from the car cigarette lighter.
94ACC1306	ADJUSTABLE ARM KIT FOR VEHICLE CRADLE	positionable arm for mounting the cradle in the vehicle

### **POWERING THE DATALOGIC J SERIES™ VEHICLE CRADLE**

Once the cradle has been mounted, it is necessary to prepare the power cable termination to connect the cradle to the vehicle power source.

- Brown wire: connect to a V+ (10 to 32 Vdc) vehicle power source;
- Blue wire: connect to the vehicle ground wire or chassis ground;
- Green/Yellow wire: not to be connected.

For connection to the vehicle power source it is possible to use the in-line fuse (with holder) supplied with the cradle.

Verify that the a 8 A slow-blow fuse is contained within the holder, then splice it to the end of the brown wire of the cable. Make the distance between fuse holder and power connection point as short as possible and apply a caution label on the fuse holder.

Once the power cable termination has been completed, it is possible to connect the Datalogic J Series™ Vehicle Cradle to the vehicle power.

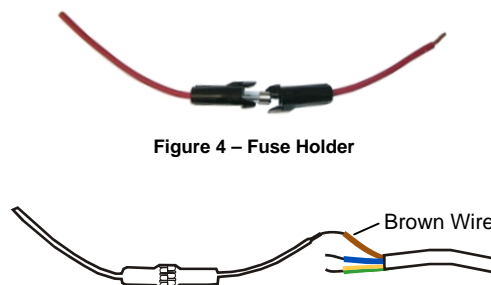


Figure 4 – Fuse Holder

Figure 5 – Fuse Holder Connection

### **INSERTING THE DATALOGIC J SERIES™ INTO THE VEHICLE CRADLE**

For correct functioning insert the PDA into the cradle by lightly pushing it towards the upper part of the cradle retaining clip. Then, push it down until the retaining clip clicks.

When the cradle is powered, insert the PDA and the green LED will turn on. If the PDA is not inserted, the LED remains off while the cradle is still powered.

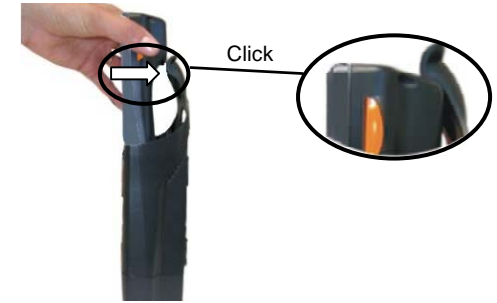


Figure 6 – Inserting the PDA into the Vehicle Cradle

### **CONFIGURING DATALOGIC J SERIES™ PDA FOR VOCAL COMMUNICATION**

By default vocal communication takes place through the Datalogic J Series™ PDA integrated loudspeaker and microphone. Once inserted into the vehicle cradle, the communication has to be managed by the cradle itself. Thus, the PDA must be configured through the volume settings applet available in the Windows CE .NET control panel to correctly manage the communication (refer to the Datalogic J Series™ User's Manual for more details).



**Vocal Communication requires Datalogic J Series™ PDA SW version 1.40 or later.**

#### **NOTE**

### **CONNECTION**

The Datalogic J Series™ Vehicle Cradle can be connected to a host by means of an RS232 interface.

#### **RS232 Connection**

The Datalogic J Series™ Vehicle Cradle can be connected to the host by means of any standard null modem cable. A 9-pin female D-Sub connector must be connected to the RS232 port of the cradle. Once the host has been turned on, insert the Datalogic J Series™ PDA into the cradle.

Pin 9 of the Vehicle Cradle RS232 connector (normally not connected in null modem cables), supplies regulated +5 Vdc  $\pm$  5% 500 mA max power.



Figure 7 - RS232 Connection

- A) Datalogic J Series™ Vehicle Cradle  
B) Standard Null Modem Cable

- C) Host Computer