



Technical Description

Bluetooth Cradle, Model CR0078

Overview

The CR0078 Bluetooth Cradle provides a power and communications link for the Motorola DS6878 Wireless Imager Scanner and LS4278 Laser Scanner.

The CR0078 contains a Bluetooth EDR radio capable of transferring data at up to 3Mbps and also supports USB, RS232, Synapse, Keyboard Wedge and IBM46XX (RS485) interfaces for cradle to host communication.

Cradle to Scanner Communication

The Broadcom BCM2046 Bluetooth v2.1 + EDR radio provides a Bluetooth link to the DS6878 and LS4278 scanners allowing the transfer of images and barcode data at a maximum data transfer rate of 3Mbps. RF power from the Bluetooth radio is routed to a GigaAnt omni-directional antenna.

The DS6878 automatically pairs with the CR0078 upon insertion in to the cradle.

The CR0078 cradle also supports presentation scanning, utilizing the cradle contacts as GPIO's when the DS6878 is docked in the cradle.

Cradle to Host Communication

The CR0078 cradle is a multi-interface product supporting USB, RS232, Synapse, Keyboard Wedge and IBM46XX (RS485.) This is achieved using a modified Multi-Interface architecture based off the Multi-Interface Micro (MIMIC). Using this standard allows compatibility with the existing Universal Cable Set and enables auto detection of the interface cable type.

Power Supply

Use ONLY a LISTED Motorola, Type no. 50-14000, or PWRS-14000, Direct Plug-In Power supply, marked Class 2 or LPS, or SELV, Rated 12 Vdc, 0.65 A Min. (IEC60950-1). Use of Alternative Power Supply will invalidate any approvals given to this unit and may be dangerous.



CR0078 Technical Specifications

The following table summarizes the CR0078 intended operating environment and hardware specifications.

Physical Characteristics

Dimensions:	5.4 in L x 4 in W , 3.6 in H
Weight:	Approximately 7.9 oz Typical
Voltage and Current (CR0078 Base):	Voltage 12 +/-10% VDC Typical Current 650 mA
Color:	Gray

User Environment

Sealing	Test to casual spill test: room temp., 4oz fluid of water, coffee and soda. Test method to be determined with Quality. (Note that this applies to desk mount configuration only)
Operating Temperature:	+32° to 122° F (0 to 40° C)
Storage Temperature:	+32 to 104° F (-20 to 70° C)
Humidity:	5 % to 95 % RH (Non-Condensing)
Drop Specifications:	Tabletop drop: 30-inch drop to tile, 1 drop per side (6 drops total) at room temperature