Palm IIIc™ Organizer's Serial Connector Pin-out Description

The organizer's 10 pin edge connector has some RS-232 interface signals and some additional signals to support the use of the synchronizing cradle and the Palm™ Modem.

PIN #	Signal Name & Direction	Function
1	DTR (out)	Data Terminal Ready – (transceiver pin 15) from organizer to PC.
2	VCC (out)	This is tied to Vcc (3.3v) through a 330 ohm resistor. This signal is connected to the HotSync® button (normally open) on both the cradle and the Palm Modem. The other side of the HotSync button connects to pin 7 (GPI1).
3	RD (in)	Receive Data – (transceiver pin 13) from PC to organizer
4	RTS (out)	Request To Send – (transceiver pin 16) hardware flow control handshake signal
5	TD (out)	Transmit Data – (transceiver pin 17) from organizer to PC
6	CTS (in)	Clear To Send – (transceiver pin 14) hardware flow control handshake signal
7	GPI1 (in)	Interrupt line for initiating the HotSync process. This signal is connected to the HotSync® button (normally open) on both the cradle and the Palm Modem. The other side of the HotSync button connects to pin 2 (VCC). The signal turns on a MUN5211T1 NPN transistor which asserts a low on the DragonBall EZ IRQ1 (pin 32)
8	GPI2 (in)	Peripheral ID line for synchronization. Signals "Modem Sync" when asserted high (this is achieved in the Palm Modem because this pin is connected to pin 2 through a 20K ohm resistor). This input turns on a MUN5211T1 NPN which asserts a low on the DragonBall EZ CSA1 (pin 56) to present a "Modem connected" ID signal to the processor.
9	DC_IN_PLUS(in)	To charge the Li-Ion battery this requires a 5 Volt DC regulated input as supplied by Motorola model R410510 power supply.
10	DC_IN_MINUS	Signal Ground

- Looking at the back of the organizer, the pins are counted 1 to 10 going from right to left.
- Maximum transmission rate is 115,200 bps, using the modem it is limited to 57,600 bps.
- RTS and CTS are used to communicate at speeds above 2400 bps.
- All organizer's released so far do not implement DSR, RI, CD and TC.
- No TC (Transmitter Clock) means synchronous transmission is not possible.
- Transceivers used: Palm IIIc™ organizer-- Maxium MAX3386E