MORE ON SPECIFICATIONS

Overview

This file provides additional information about the M202Plus's hardware. It should be used if you cannot find what you need in the M202Plus product manual.

Within this file, you will find information about:

- network connector pinouts - *Network Connectors* on page 2.
- parallel port pinouts - *Parallel Ports (PRN1, PRN2)* on page 2.
- serial port pinouts - *Serial Ports (COM1, COM2)* on page 4.

IMPORTANT PINOUTS

Network Connectors

Table 1: UTP (RJ45) Connector Pinout

Pin	Signal	Source
1	Transmit+	M202Plus
2	Transmit-	M202Plus
3	Receive+	Network
4	none	none
5	none	none
6	Receive-	Network
7	none	none
8	none	none

Parallel Ports (PRN1, PRN2)

Two IBM PC compatible parallel interfaces (Centronics), IEEE 1284-I compliant, female DB25 connectors.

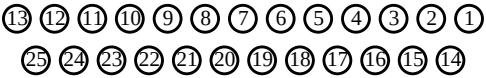


Table 2: PRN1/PRN2 Pinout

Pin	Signal	Source
1	-STROBE	M202Plus
2	DATA 1	M202Plus
3	DATA 2	M202Plus
4	DATA 3	M202Plus
5	DATA 4	M202Plus
6	DATA 5	M202Plus
7	DATA 6	M202Plus
8	DATA 7	M202Plus
9	DATA 8	M202Plus
10	-ACK	Printer
11	BUSY	Printer
12	PE	Printer
13	SLCT	Printer
14	-AUTOFD	M202Plus
15	-ERROR	Printer
16	-INIT	M202Plus
17	-SLCTIN	M202Plus
18-25	GROUND	-

Serial Ports (COM1, COM2)

Dual bi-directional IBM AT compatible serial interfaces, male DE09 connectors. Act as DTEs.

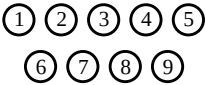


Table 3: COM1/COM2 Pinout

Pin	Abbr.	Name	Source
1	DCD	Data Carrier Detect	DCE
2	RXD	Receive Data	DCE
3	TXD	Transmit Data	DTE
4	DTR	Data Terminal Ready	DTE
5	GND	Signal Ground	-
6	DSR	Data Set Ready	DCE
7	RTS	Request to Send	DTE
8	CTS	Clear to Send	DCE
9	+12V	12V Power Supply	DTE

Most often, printers attached are 25-pin DTEs.

Table 4: 25-Pin Serial Device Pinout

Pin	Abbr.	Name	Source
2	TXD	Transmit Data	DTE
3	RXD	Receive Data	DCE
4	RTS	Request to Send	DTE
5	CTS	Clear to Send	DTE
6	DSR	Data Set Ready	DCE
7	GND	Signal Ground	-
8	DCD	Data Carrier Detect	DCE
20	DTR	Data Terminal Ready	DTE
22	RI	Ring Indicator	DCE

Serial Flow Control Methods

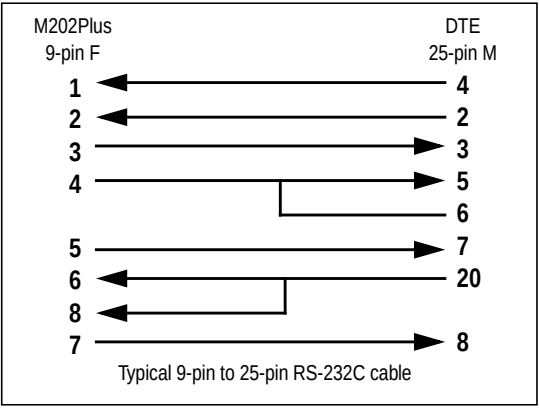
The M202Plus's serial ports support both software and hardware flow control:

Software Default setting. Indicated by "`ixon`". Uses XON/XOFF.

Hardware Indicated by "`ctsflow`". Uses RTS/CTS signals.

Minimal cable requirements for software flow control are pins 2, 3, and 7. This may not be as robust as hardware flow control so a fuller cable pinout is recommended allowing for either flow control method down the road.

The following schematic shows the most common 9-pin to 25-pin setup. This setup relies on the DTR signal meaning that the printer must toggle DTR if it can or cannot take more data. If the printer uses another signal to do this, this schematic will not work. Therefore, the key to hardware flow control working properly is to know what signal the printer toggles when it is able to accept more data. Once you know this, you can make this signal go to the CTS pin (i.e. Pin 8) on the M202Plus's serial interface.



Typical 9-pin to 25-pin RS-232C cable

Note: Sometimes devices are attached to the M202Plus's serial ports that have 9-pin connectors (e.g. PCs and some terminals). When choosing the correct 9-pin to 9-pin serial cable for this setup, remember to cross over pins 2 and 3 (i.e. Transmit and Receive). Otherwise, you will have Transmit going to Transmit and Receive going to Receive resulting in no data flow between the two devices.