



Serial Port DB25 Connector			Serial Port DB9 Connector		
Pin	Signal	Description	Pin	Signal	Description
1	FG	Frame Ground	1	CD	Carrier Detect
2	TD	Transmit Data	2	RD	Receive Data
3	RD	Receive Data	3	TD	Transmit Data
4	RTS	Ready To Send	4	DTR	Data Terminal Ready
5	CTS	Clear To Send	5	GND	Ground
6	DSR	Data Set Ready	6	DSR	Data Set Ready
7	SG	Signal Ground	7	RTS	Request To Send
8	DCD	Data Carrier Detect	8	CTS	Clear to Send
9	+V	Positive Voltage	9	RI	Ring Indicator
10	-V	Negative Voltage			
11	QM	Equilizer Mode			
12	(S)DCD	2nd Data Carrier Detect			
13	(S)CTS	2nd Clear to Send			
14	(S)TD	2nd Transmit Data			
15	TC	Transmit Clock			
16	(S)RD	2nd Receive Data			
17	RC	Receive Clock			
18	Not Used				
19	(S)RTS	2nd Ready To Sent			
20	DTR	Data Terminal Ready			
21	SQ	Signal Quality			
22	RI	Ring Indicator			
23	DRS	Data Rate Selector			
24	ExTC	External Transmit Clock			
25	Not Used				

Bare Minimum Null Modem Connections, No modem handshake. Set Hardware Flow Control to "None"

DB9	DB9	DB25	DB25	DB25	DB9
3 TD	— 2 RD	1 FG	— 1 FG	2 TD	— 2 RD
2 RD	— 3 TD	2 TD	— 3 RD	3 RD	— 3 TD
5 GND	— 5 GND	3 RD	— 2 TD	7 GND	— 5 GND
		7 GND	— 7 GND		

Connecting 2 PC's via null modem with full modem handshake capability. Hardware Flow control can be "Hardware" or "None"

DB9	DB9	DB9	DB25	DB25	DB25
			— 1 FG	1 FG	— 1 FG
3 TD	— 2 RD	3 TD	— 3 RD	2 TD	— 3 RD
2 RD	— 3 TD	2 RD	— 2 TD	3 RD	— 2 TD
7 RTS	— 8 CTS	7 RTS	— 5 CTS	4 RTS	— 5 CTS
8 CTS	— 7 RTS	8 CTS	— 4 RTS	5 CTS	— 4 RTS
5 GND	— 5 GND	5 GND	— 7 GND	7 GND	— 7 GND

Drawn By: **Gerald Crenshaw WD4BIS** Date: **Sept. 1, 2007**

Engineer: **Gerald Crenshaw WD4BIS** Date: **Sept. 1, 2007**

Checked By: **Janet Crenshaw WB9ZPH** Date: **Sept. 1, 2007**

From the bench of:
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Title:

Serial Connection Notes