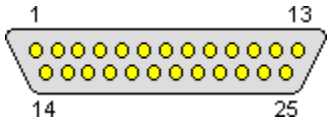
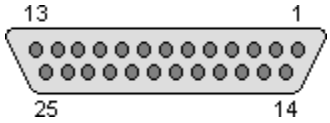
RS-530 (EIA530) Serial 25 pin Connector Pinout

From AllPinouts

Connector pinout for: RS-530 (EIA530) Serial 25 pin



25 pin D-SUB male connector at the DTE (Computer).



25 pin D-SUB female connector at the DCE (Modem).

EIA-530, or RS-530, is a balanced serial interface standard that generally uses a 25 pin connector. The RS530 isn´t an actual interfaceis, but a generic connector specification. The connector pinning can be used to support RS422, RS423, V.35 and X.21 to name the most popular ones. 25 pin D-SUB male connector layout

RS530 is just like RS422 and uses a differential signaling on a DB25 - RS232 format - EIA-530 Transmit (and the other signals) use a twisted pair of wires (TD+ & TD-) instead of TD and a ground reference as in RS232 or V.24. This interface is used for HIGH SPEED synchronous protocols. Using a differential signaling allows for higher speeds over long cabling. This standard is applicable for use at data signaling rates in the range from 20,000 to a nominal upper limit of 2,000,000 bits per second. Equipment complying with this standard, however, need not operate over this entire data signaling rate range. They may be designed to operate over a narrower range as appropriate for the specific application.

Pin	Name	Dir	Description	Circuit	Paired with
1		-	Shield		18
2	TxD	OUT	Transmitted Data	BA	14
3	RxD	IN	Received Data	BB	16
4	RTS	OUT	Request To Send	CA	19
5	CTS	IN	Clear To Send	CB	13

6	DSR	IN	Data Set Ready	CC	22
7	SGND	-	Signal Ground	Ground	21
8	DCD	IN	Data Carrier Detect	CF	10
9		IN	Rtrn Receive Sig. Elmnt Timing	DD	17
10		IN	Rtrn DCD	CF	8
11		OUT	Rtrn Transmit Sig. Elmnt Timing	DA	24
12		IN	Rtrn Transmit Sig. Elmnt Timing	DB	15
13		IN	Rtrn CTS	CB	5
14		OUT	Rtrn TxD	BA	2
15		IN	Transmit Signal Element Timing	DB	12
16		IN	Rtrn RxD	BB	3
17		IN	Receive Signal Element Timing	DD	9
18	LL	OUT	Local Loopback	LL	1
19		OUT	Rtrn RTS	CA	4
20	DTR	OUT	Data Terminal Ready	CD	23
21	RL	OUT	Remote Loopback	RL	7
22		IN	Rtrn DSR	CC	6
23		OUT	Rtrn DTR	CD	20
24		OUT	Transmit Signal Element timing	DA	11
25		IN	Test Mode	TM	

Implementation Options

DCE	**DTE**		
RS530	RS232	V.35	X.21
1	1	A	1
2	2	P	2
3	3	R	4
4	4	C	
5	5	D	
6	6	E	
7	7	B	
8	8	F	

9	-	X	
10	-	-	
11	-	W	
12	-	AA	
13	-	-	
14	-	S	
15	15	Y	
16	-	T	
17	17	V	
18	-	-	
19	-	-	
20	20	-	
21	-	-	
22	-	-	
23	-	B	
24	-	U	
25	-	-	