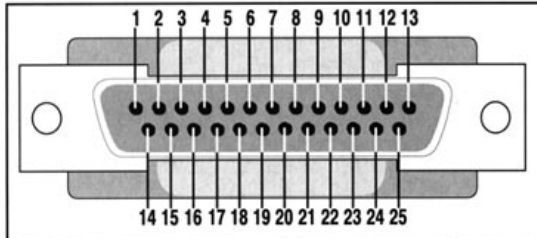


### RS-232 Interface

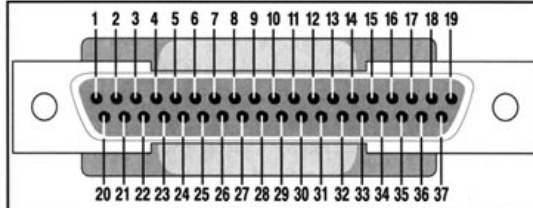
RS-232 (EIA Std.) applicable to the 25 pin interconnection of Data Terminal Equipment (DTE) and Data Communications Equipment (DCE) using serial binary data



Pin	Description	EIA CKT	From DCE	To DCE
1	Frame Ground	AA		
2	Transmitted Data	BA		D (Data)
3	Received Data	BB	D	
4	Request to Send	CA		C (Control)
5	Clear to Send	CB	C	
6	Data Set Ready	CC	C	
7	Signal Gnd/Common Return	AB		
8	Rcvd. Line Signal Detector	CF	C	
11	Undefined			
12	Secondary Rcvd. Line Sig. Detector	SCF	C	
13	Secondary Clear to Send	SCB	C	
14	Secondary Transmitted Data	SBA		D
15	Transmitter Sig. Element Timing	DB	T (Timing)	
16	Secondary Received Data	SBB	D	
17	Receiver Sig. Element Timing	DD	T	
18	Undefined			
19	Secondary Request to Send	SCA		C
20	Data Terminal Ready	CD		C
21	Sig. Quality Detector	CG		C
22	Ring Indicator	CE	C	
23	Data Sig. Rate Selector (DCE)	CI	C	
23	Data Sig. Rate Selector (DTE)	CH		C
24	Transmitter Sig. Element Timing	DA		T
25	Undefined			

### RS-449

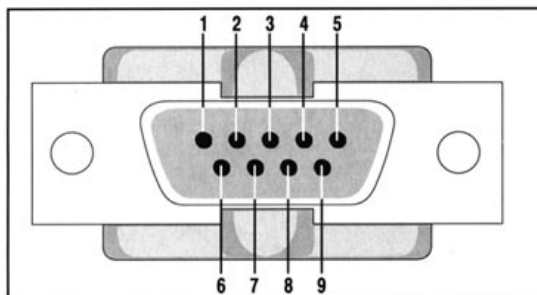
The EIA RS-449 standard specifies the functional and mechanical characteristics of the interconnection between Data Terminal Equipment (DTE) and Data Communications Equipment (DCE) and complying to EIA electrical interface standards RS-422 and RS-423.



Pin	EIA CKT	Description	From DCE	To DCE
1		Shield		
2	SI	Signaling Rate Indicator	*C	
4	22 SD	Send Data		*D
5	23 ST	Send Timing	*T	
6	24 RD	Receive Data	*D	
7	25 RS	Request to Send		*C
8	26 RT	Receive Timing	*T	
9	27 CS	Clear to Send	*C	
10	LL	Local Loopback		*C
11	29 DM	Data Mode	*C	
12	30 TR	Terminal Ready		*C
13	31 RR	Receiver Ready	*C	
14	RL	Remote Loopback		*C
15	IC	Incoming Call	*C	
16	SR	Signaling Rate Selector		*C
17	35 TT	Terminal Timing		*T
18	TM	Test Mode	*C	
19	SG	Signal Ground		
20	RC	Receive Common		
28	IS	Terminal in Service		*C
32	SS	Select Standby		*C
33	SQ	Signal Quality	*C	
34	NS	New Signal	*C	
36	SB	Standby Indicator		*C
37	SC	Send Common		

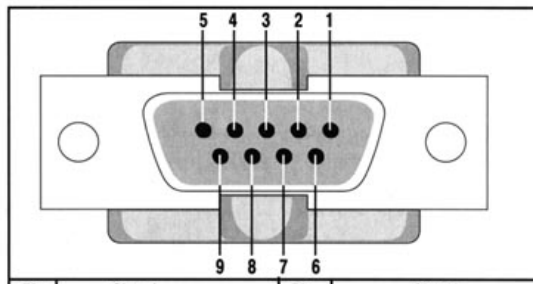
Signal Type: D = Data, C = Control, T = Timing  
 Note: On the DB37 connector that is commonly used for RS449; Pins 3 and 21 are undefined. B = Return.

### PC Com Port -232



Pin	Signal	Pin	Signal
1	Data Carrier Detect	6	Data Set Ready
2	Received Data	7	Request to Send
3	Transmitted Data	8	Clear to Send
4	Data Terminal Ready	9	Ring Indicator
5	Signal Ground		

### EIA-449 Secondary Interface



Pin	Signal	Pin	Signal
1	Shield	6	Receive Common
2	Secondary Receiver Ready	7	Secondary Request to Send
3	Secondary Send Ready	8	Secondary Clear to Send
4	Secondary Receiver Data	9	Send Common
5	Signal Ground		