
One-Port Serial

Serial module for use when running Raw, Hybrid, IP over serial (HDLC) and Serial Over IP DTE mode that provides single DIN connector (RS-530/V.35). Used with the VX900 only; this port is not applicable to the VX900C.

See the [Serial Interface Card Cables Specifications](#) topic for additional cable and connector specifications.

The following DTE cables are required for the one-port serial interface card.

Standard Interface Cables

Part number	Description
035598	EIA530 DTE cable
035555	V.35 DTE cable

Serial WAN Connectors for One-port Serial Card

Two cable types can be used with the one-port Serial WAN interface card:

EIA530 Cable

The EIA 530 Cable assembly is constructed with one end of the cable terminated in a high-density 26-way HD-Type plug and the other end terminated in a 25-way D-Stub plug. This cable enables the connection of the serial WAN interface card with an EIA 530 DCE device. The connections are shown below.

Interface Signal Name	HD26--Way Pin Contact Male	DB25 Pin contact Male	EIA 510 Signal	Signal Pair
TXa	2	2	TD (A)	Pair
TXb	11	14	TD (B)	
Sa	3	15	TSETC (A)	Pair
Sb	12	12	TSETC (B)	
RXa	4	3	RD (A)	Pair
RXb	13	16	RD (B)	
Ia	6	5	CTS (A)	Pair
Ib	15	13	CTS (B)	
Ca	5	4	RTS (A)	Pair
Cb	14	19	RTS (B)	
GND	9	7	GND	
SHIELD	1	1	SHIELD	
CABLE*In	Link HD26 Pin 10 to Pin 18			

Crypto Resync

VX supports crypto resynchronization on EIA-530 interfaces. When configured for crypto resynchronization, VX send HDLC keep alive messages when the line is operationally DOWN. Use the following guidelines to set up the hardware connection for crypto resynchronization on a VX system:

- Balanced line: RTS. VX can be configured to toggle the balanced RTS line (pins 5 and 14 on the HD-26) for a configurable period (typically 200 milliseconds), once per configurable period (typically every 15 seconds)
- Unbalanced line: DTR. VX can be configured to toggle unbalanced DTR line (pin 25 on the HD-26) for the same periods.

Crypto Resynchronization Specifications

Interface Signal Name	HD-26 PIN	EIA-530 PIN	EIA-530 Signal	V.35 PIN	Crypto PIN	Crypto PIN Name
TXD+	2	2	TD+	P	2	TXPT+
TXD-	11	14	TD-	S	14	TSPT-
TXC+	7			Y		
TXC-	16			AA		
S+	3	15	TSETC+		15	RSC+
S-	12	12	TSETC-		12	RSC-
RXD+	4	3	RD+	R	3	RXPT+
RXD-	13	16	RD-	T	16	RXPT-
I+	6	5	CTS+			
I-	15	13	CTS-			
CTS	23			D		
C+	5	4	RTS+		18	*Resync+/Prep+
C-	14	19	RTS-		21	*Resync-/Prep-
RTS	23			C		
DTR	25			H	18	*Resync+/Prep+
DCD	26			F		
GND	9	7	GND	B		
SHIELD	1	1	SHIELD	A		
CABLE*IN	Link HD26 Pin 10 to 18					



Connect either C+ or DTR to PIN 18 on the crypto device. Connection to both, simultaneously, is not allowed.

V.35 Cable

This cable is constructed with one end of the cable terminated in a high density 26-way HD-type plug and the other end terminated in a MRAC-34 plug. The connections are shown below.

V.35 Cable Connector Pinouts

Interface Signal Name	HD-26 Way Pin Contact Male	MRAC-34 Pin Contact Male	Twisted Pairs
TXDa	2	P	Pair
TXDb	11	S	
TXClka	7	Y	Pair
TXClkb	16	AA	
RXDa	4	R	Pair
RXDb	13	T	
RXClka	8	V	Pair
RXClkb	17	X	
RTS	23	C	
CTS	24	D	
DTR	25	H	

DCD	26	F	
GND	9	B	
SHIELD	1	A	
CABLE*IN	Link HD26 Pin 10 to Pin 18		