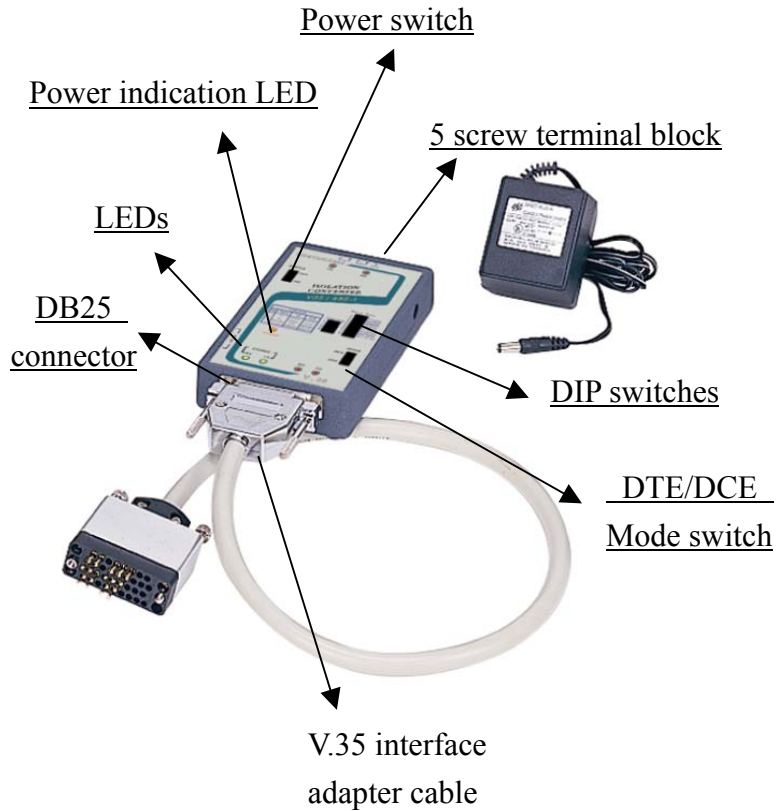


# V35/485-1 User Manual

The **V35/485-1** Interface converter provides conversion between **V.35** interface and **RS-485** standard. The **V.35** interface connection is via the unit's **DB-25F** female **D-Type** connector, while the **RS-485** side's connection is via a five screw terminal block.

The **V35/485-1** converter's circuitry provides a high degree of electrical isolation between the **V.35** and **RS-485** sides. The **V.35** side may operate as **DTE** or **DCE**, has provisions for establishing hardware flow control, and has **LEDs** to indicate data transmission and reception. The **RS-485** side may operate in either two wire half duplex or four wire half or full duplex and also has **LEDs** to indicate data transmission and reception.



## Features

- Easy to configure
- DTE/DCE selectable
- V35 handshaking; DTR/DSR, RTS/CTS, or Auto
- RS-485; 2 or 4 wire, Half or Full Duplex
- 2500VDC Isolation minimum
- External DC power required

## Function Table

Function			
DIP	Name	On	Off
1	Tx	Enable	Flow Ctrl.
2	Rx	Enable	Flow Ctrl.
3	Flow Ctrl.	Auto	Hardware
4	Hardware	DTR	RTS

## DIP switches:

Baud Rate	
1	1200
2	2400
3	4800
4	9600
5	19200
6	38400
7	57600
8	115.2K

Function
1
2
3
4

# Description:

DIP function setting				Tx	Rx	Application examples
1	2	3	4			
ON	ON	X	X	Always on	Always on	4 wires, full duplex
OFF	ON	ON	X	Auto	Always on	4 wires, full duplex, Auto flow control
OFF	ON	OFF	ON	DTR (or DSR)	Always on	4 wires multidrop/2 wires half duplex with DTR hardware flow control
OFF	ON	OFF	OFF	RTS (or CTS)	Always on	4 wires multidrop/2 wires half duplex with RTS hardware flow control
ON	OFF	ON	X	Always on	Auto	
ON	OFF	OFF	ON	Always on	/DTR (or /DSR) enable	
ON	OFF	OFF	OFF	Always on	/RTS (or /CTS) enable	
OFF	OFF	ON	X	Auto	Auto	2 wires half duplex, Auto flow control
OFF	OFF	OFF	ON	DTR (or DSR) enable	/DTR (or /DSR) enable	2 wires half duplex with DTR hardware flow control
OFF	OFF	OFF	OFF	RTS (or CTS) enable	/RTS (or /CTS) enable	2 wires half duplex with RTS hardware flow control

Note : X indicates "don't care"

# Specifications

## Connectors

V35 DB25F  
RS-485 5-screw terminal block

## Voltage

9VDC

## Power

<6W

## Electrical Iso.

2500VDC minimum

## Data Rates

1200, 2400, 4800, 9600, 19.2K, 38.4K, 57.6K, or 115.2K

## Dimensions

140(L)x80(W)x25(H) mm

## Dimensions

5-5/8(L)x3-1/8(W)x1(H) inch

## Power Source

External DC9V/300mA adapter

## Humidity

up to 90% non-condensing

## Temperature

0~50°C / 32 ~ 125°F

## Weight

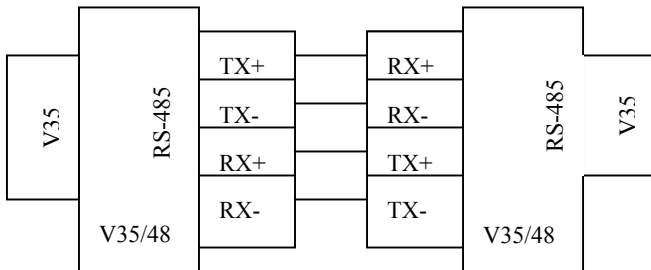
180g (6 1/2oz.) net

# V35 / DB25 Pin Out

Pin#	Name	Pin#	Name	Pin#	Name	Pin#	Name
1	A	8	F	15	Y	22	--
2	P	9	X	16	T	23	--
3	R	10	--	17	V	24	U
4	C	11	W	18	--	25	--
5	D	12	AA	19	--		
6	E	13	--	20	H		
7	B	14	S	21	--		

# Application Drawings

## Four Wire ( Full or Half duplex )



SOURCE	ABBR.	PIN NO.	PIN NO.	ABBR.	SOURCE
COMMON	SG	B	A	FG	COMMON
DCE	CTS	D	C	RTS	DTE
DCE	DCD	F	E	DSR	DCE
DCE	RI	J	H	DTR	DTE
--	--	L	K	--	--
--	--	N	M	--	--
DCE	RD(A)	R	P	TD(A)	DTE
DCE	RD(B)	T	S	TD(B)	DTE
DCE	RC(A)	V	U	XTC(A)	DTE
DCE	RC(B)	X	W	XTC(B)	DTE
--	--	Z	Y	TC(A)	DCE
--	--	BB	AA	TC(B)	DCE
--	--	DD	CC	--	--
--	--	FF	EE	--	--
--	--	JJ	HH	--	--
--	--	LL	KK	--	--
--	--	NN	MM	--	--

## V35 Interface

## Two Wire ( Half duplex only )

