485Ip Series

MULTI-DROP INTERFACE CONVERTER

The **485Ip Series** are compact, self-contained interface converters for conversion between the V.24/RS-232 and RS-422/485 communication standards. The **485Ip Series** consumes very little current and is therefore able to be powered from the V.24/RS232 interface. If the application does not support interface power, the converters may also be powered via an external AC switching power adapter (12V/400mA).

The **485Ip Series** sports three models:
485Ip-1F; RS232 is DB25F, RS485 is 4-screw terminal
485Ip-1M; RS232 is DB25M, RS485 is 4-screw terminal

The **485Ip Series** feature three slide switches that provide the following functions:

DCE/DTE; This two position slide switch enables the user to switch the interface between data communication (DCE) and data terminal (DTE) modes.

MON/SIM; The normal setting for this two position switch is in the "simulate" (SIM) mode. The "monitor" (MON) mode is a special mode whereby the interface converter can be attached non-obtrusively between an existing network and a protocol analyzer.

Three position slide switch;

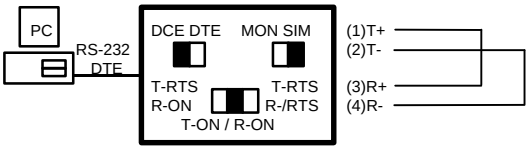
T-RTS,R-ON: In this position, the transmitter is enabled when RTS is active. The receiver is always enabled.

T-ON,R-ON: In this position, both the transmitter and receiver are enabled.

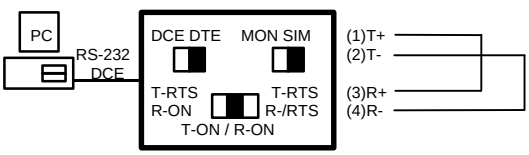
T-RTS,R-/RTS: In this position, the transmitter is enabled when RTS is active. The receiver is enabled when RTS is in-active.

APPLICATION EXAMPLES

- loop back test



- loop back test



- MONITOR/SIMULATION selectable
- DTE/DCE device setting selectable
- FULL/HALF duplex mode selectable
- Implements low priced LAN
- Supports up to 32 users
- Programmable control by RTS/CTS
- TD/RD LED indicators
- Power LED indicator

485Ip Interface pinouts

RS-232 pin configuration

Pin 2 TD
Pin 3 RD
Pin 4 RTS
Pin 5 CTS
Pin 6 DSR
Pin 20 DTR
Pin 7 GND

RS-485 pin configuration

Pin No.	RJ-45 Pin	Simulation	Monitor
1	5	T+	R1+
2	4	T-	R1-
3	6	R+	R2+
4	3	R-	R2-

Meaning of slide switches:

DCE DTE : The converter is in DTE mode.

DCE DTE : The converter is in DCE mode.

MON SIM : The converter is in simulation mode.

MON SIM : The converter is in monitor mode.

T-RTS T-RTS : The transmitter is enabled when RTS is
R-ON /RTS active. The receiver is always enabled
T-ON/R-ON

T-RTS T-RTS : Both the transmitter and receiver are
R-ON /RTS always enabled
T-ON/R-ON

T-RTS T-RTS : When shown, indicates a "don't care"
R-ON /RTS setting for this switch.
T-ON/R-ON

V.:1.2