



Description

The Model ULTRA-485 incorporates unique hardware circuitry that enables the RS-485 interface to appear to be standard COM: interface, requiring no additional software drivers. Previous RS-485 interfaces required the software to “turn on” RTS to transmit and then “turn off” RTS at the end of the character. This required overhead and special interrupt processing. Modern operating systems such as Windows 95/98/NT/ME/2000 and other multi-user operating systems typically will not allow the user access to the low level registers of the UART chip without writing a specialized driver or require significant overhead to accomplish this simple task. Low level RS-485 driver maintenance is handled by the hardware on the ULTRA-485 rather than through software, therefore, initial development for RS-232 communications can be effortlessly modified to RS-485.

PINOUT Connections

RS-530 Mode

Signal	Name	Pin #	Mode
GND	Ground	7	
RDB	RX+	16	Input RS-422
RDA	RX-	3	Input RS-422
CTSB	CTS+	13	Input RS-422
CTSA	CTS-	5	Input RS-422
DSRB	DSR+	22	Input RS-422
DSRA	DSR-	6	Input RS-422
DCDB	DCD+	10	Input RS-422
DCDA	DCD-	8	Input RS-422
TDB	TX+	14	Output RS-422
TDA	TX-	2	Output RS-422
RTSB	RTS+	19	Output RS-422
RTSA	RTS-	4	Output RS-422
DTRB	DTR+	23	Output RS-422
DTRA	DTR-	20	Output RS-422

RS-485 Mode (4-Wire Mode)

Signal	Name	Pin #	Mode
GND	Ground	7	
TDB	TX+	24	Output RS-422
TDA	TX-	25	Output RS-422
RDB	RX+	12	Input RS-422
RDA	RX-	13	Input RS-422

Features

- Single channel RS-485/422/530 adapter for Windows® 95/98/NT/ME/2000, DOS, QNX and LINUX Communications
- Automatic control of RS-485 driver enable signal
- Speeds to 460.8kbps (16850 model)
- Selectable termination, echo mode, 2/4 wire operation
- No special drivers required - looks like standard COM port to the system
- 16850 UART version

Support

- Superior pre-sales and post-sales technical support
- All products carry a two year warranty

Specifications

- Communications Chip**
16550 UART or 16850 UART
- Number of Ports**
Single RS-485/422
- Max. Data Rate**
115kbps - 16550 UART
460.8kbps - 16850 UART
- Max. Data Distance**
Up to 5000-feet
- RS-485 Operation**
2 or 4 wire
- Pinout Configuration**
EIA 530 DTE pinout on DB25P
- Handshake**
RTS, CTS, DCD, DSR, and DTR
- Address Requirements**
8 consecutive I/O locations
- IRQ Selections**
2-5, 7, 10-12, or 15 (2 is 9 on an AT class machine)
- Interrupt Sharing Capability**
Yes
- Operating Temperature**
0 ° to 50 °C
- Storage Temperature**
-20 ° to 70 °C
- Relative Humidity**
0 to 90% Non-condensing
- Power Requirements**
+5V @ 160mA
- MTBF**
>150,000 hours
- MTTR**
<.25 hours
- OS Support**
Dos, Windows 95/98/NT/ME/2000
- Ordering Guide**
- ULTRA-485**
Board w/16550 UART, CD manual, CD software
- ULTRA-485/850**
Board w/16850 UART, CD manual, CD software

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