

Getting started with the TS-ISO485

The TS-ISO485 is a PC/104 daughter card that provides two PC compatible COM ports capable of running up to 115K baud. Each COM port has opto-isolated RS-485 drivers capable of running in full or half duplex mode.

On-board logic automatically controls transmit enable for half duplex operation.

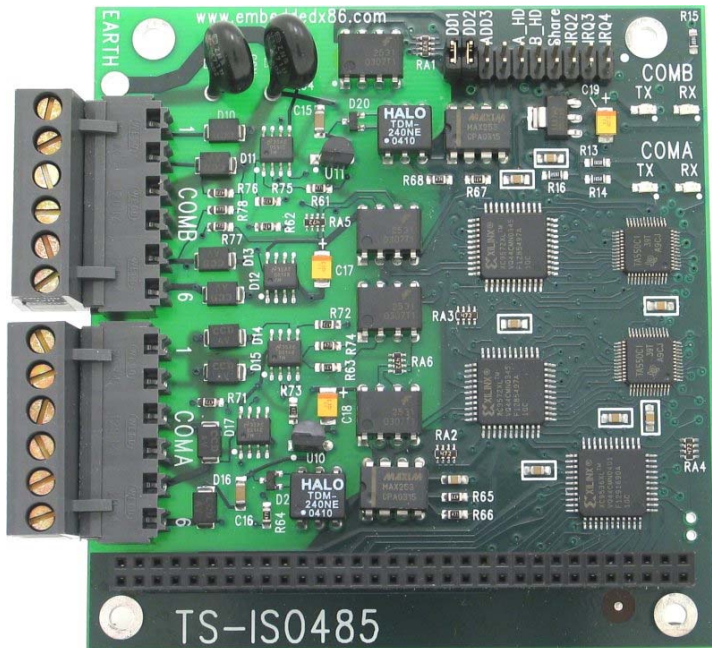
COM port and IRQ are jumper selectable (IRQ4, 5, 6, 7 & 9 available)

16C550 UART with 16 byte FIFO is industry standard

Full or half duplex modes supported

Transient suppression circuitry for noise immunity

Hardware detection of receive character gap of 3 character times.



LED indicators show transmit and receive activity for each COM port.

Connector pin-outs for COMA & COMB

COM port Pin Number	Full Duplex Signal Name	Half Duplex-Signal Name
1	Receive +	NC
2	Receive -	NC
3	Signal GND	Signal GND
4	Signal GND	Signal GND
5	Transmit -	Tx/Rx -
6	Transmit +	Tx/Rx +

A_HD jumper installed will set COMA for half duplex, jumper open is full duplex
 B_HD jumper installed will set COMB for half duplex, jumper open is full duplex

Jumper settings for COM port selection

COM port selected		Jumpers ADD1-ADD3		
COMA	COMB	ADD3	ADD2	ADD1
COM3 (0x3E8)	COM4 (0x2E8)	off	off	off
COM4 (0x2E8)	COM5 (0x3A8)	off	off	on
COM5 (0x3A8)	COM6 (0x2A8)	off	on	off
COM6 (0x2A8)	COM7 (0x3A0)	off	on	on
COM7 (0x3A0)	COM8 (0x2A0)	on	off	off
COM9 (0x398)	COM10 (0x298)	on	off	on
COM11 (0x390)	COM12 (0x290)	on	on	off
COM15 (0x368)	COM16 (0x268)	on	on	on

Jumper settings for IRQ selection

IRQ selected		Jumpers IRQ2-4		
COMA	COMB	IRQ4	IRQ3	IRQ2
No IRQ	No IRQ	off	off	off
Reserved		off	off	on
IRQ3	IRQ4	off	on	off
IRQ5	IRQ6	off	on	on
IRQ4	IRQ3	on	off	off
IRQ6	IRQ7	on	off	on
IRQ7	IRQ9	on	on	off
IRQ9	IRQ1	on	on	on

The share jumper will enable IRQ sharing for COMA and COMB using the IRQ selected for COMA.