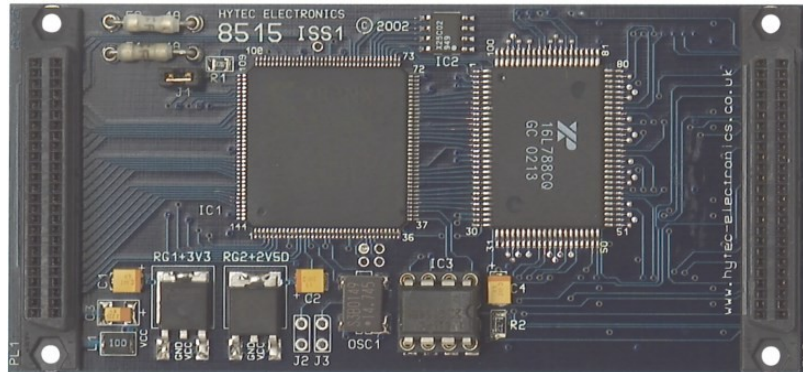# SI8516   Octal RS-485
IndustryPack®

Product Description

The Newwood Solutions IP-SI-8516 is a single-width Industry Pack that provides 8 serial interface lines with the following characteristics:-

- 8 independent RS-485 UART channels
- 64 byte Transmit and Receive FIFOs
- Transmit and Receive FIFO level counters
- Programmable Tx and Rx FIFO Trigger Levels
- Automatic Xon/Xoff Software Flow Control with Status Indication
- Programmable Data Rate with Prescaler
- Up to 6.25 Mbps Serial Data Rate
- Single Interrupt Output for all 8 UARTs
- Global Interrupt Source for all 8 UARTs
- Simultaneous UART channel initialisation
- Auto RS485 Half-duplex Control with Programmable Turn-around Delay
- Programmable Full/Half-duplex line control

Product Specifications

Size:	Single width Industry Pack 1.8ins x 3.9 ins
Operating temp:	0 to 45 deg C ambient
Number of channels:	8
Max. baud rate:	921.6kbps with internal clock.
Data format:	Binary/ASCII
Input/Output levels:	RS-485 differential
Internal clock:	14.7456MHz oscillator
Clock accuracy:	+/-100ppm (0.01%)
Power:	+5V @ 400mA typical
Fuses:	F1 1A Connects +5V to I/O connector pin.
Jumpers:	J1 Boot jumper – inserted to allow FPGA to load.
	J2,J3 not used.