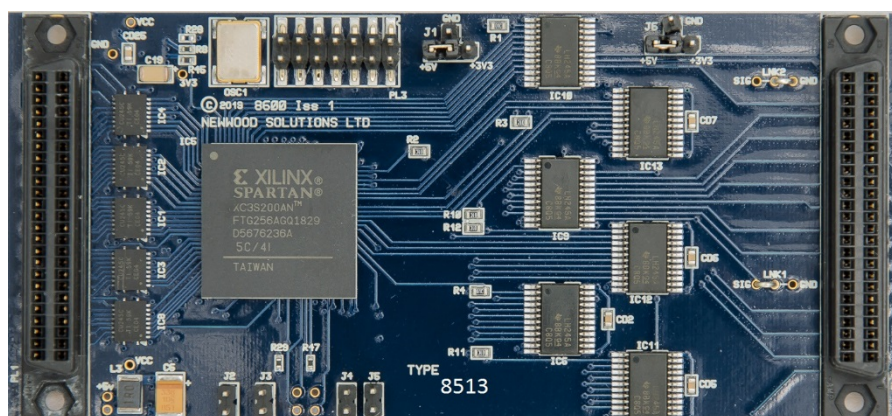


EC8513 Incremental Encoder Counter IndustryPack®



Product Description

The Newwood Solutions IP-EC-8513 is a single-width Industry Pack that caters for four quadrature output incremental encoders. The signals Phase A, Phase B and Index from each of the four encoders are connected as TTL inputs at the I/O connector and operate on four 32 bit up/down counters which can be read or overwritten at any time. The maximum counting rate is 10MHz.

A companion unit, the 8906 DIN-rail mounted interface block can be used with this IP card (together with a suitable transition board) to provide RS-422 conversion for the encoder signals which then connect through individual D-type connectors to the plant.

An EPICs driver is available for this card.

The 8513 is a firmware variant of the IP-SC-8512 and has the following features :-

- 4 independent preset up/down counters
- Full 32 bits binary count capacity
- Each counter channel can count up/down from a pre loaded value
- Count rates from D.C. to 10MHz
- An ARM register allows individual channels to be enabled or inhibited
- Maskable interrupt generated by each channel on encoder index pulse
- Counter external inputs via transition board
- Counters can be read on the fly via a shadow register
- The ability to read the module identity, manufacturer, model, revisions and serial number from

Product Specifications

Size:	Single width Industry Pack 1.8ins x 3.9 ins
Operating temp:	0 to 45 deg C ambient
Number of channels:	4 encoders
Max. count:	32 bits.
Data format:	Binary
Max count rate:	10MHz
Input levels:	TTL compatible with jumper selectable 470Ω resistor pull-up or pull-down and positive edge clocking
Power:	+5V @ 180mA typical