DELTA TAU

Universal Serial Encoder Interface for UMAC
With support for multiple serial protocols

Product Description

The Acc-84E Universal Serial Encoder Interface Board provides four channels of serial encoders to be read by the UMAC and Ultralite/MACRO station controllers. Acc-84E supports the following protocols:

Biss B & C
- Up to 40 bits of position data support
- Programmable Serial Clock from 100MHz to 250kHz
- Programmable trigger source and delay
- Programmable number of position and status bits
- Programmable CRC polynomial
- Line delay compensation for data rates up to 10Mbits/sec.

EnDat 2.2
- Up to 40 bits of position data support
- Programmable Serial Clock up to 4MHz
- Support for the EnDat 2.2 serial absolute encoder protocol
- Programmable trigger source and delay
- Error detection circuitry for response timeouts and CRC errors
- Position read and reset mode support

SSI
- Programmable encoder data size up to 40 bits and parity options
- Programmable trigger source and delay
- Supports Binary and Gray code data

Yaskawa Sigma II & III & V
- Programmable encoder data size
- Supports both incremental (13 and 17 bit) and absolute (16, 17 and 20 bit) encoder types
- Access to encoder alarm codes, temperature sensor
- Encoder fault reset capability
- Error detection circuitry for response timeouts, CRC errors, and Manchester coding errors
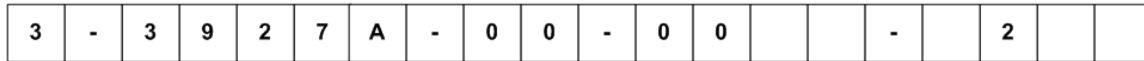
Tamagawa
- Serial Clock of 50MHz
- Programmable trigger source and delay
- Error detection circuitry for response timeouts and CRC errors
- Supports Encoder ID and Alarm Code reads

Panasonic
- Serial Clock of 50MHz
- Supports both incremental and absolute encoder types
- Programmable trigger source and delay
- Error detection circuitry for response timeouts and CRC errors
- Supports Encoder ID and Alarm Code reads

Ordering Part Number

UMAC ACC-84E

					G	H		I		K	L
3	-	3 9 2 7 A	-	0 0	-	0 0			-	2	

G H — Serial Protocol Options
- 02 – SSI Protocol
- 03 – EnDat 2.2 Protocol
- 06 – Yaskawa Sigma II & III & V
- 07 – Tamagawa
- 08 – Panasonic
- 0B – Biss B & C Protocol

I — Plate Options
- B – BLACK front, top and bottom plates (Standard)
- F – BLACK Front plate only Order as Spare Only
- R – SILVER Front, top and bottom plates
- A – SILVER Front plate only Order as Spare Only

K L — Factory Assigned Options
- 00 - No Additional* Options
- xx - Factory assigned digits for Additional* Options

* If any other **Additional Option** is required, contact factory for digits **K** and **L** (**Factory Assigned** digits).
** The ACC-84E is for UMAC and Ultralite/MACRO Station controllers ONLY.

The Universal Serial Encoder Interface is also available for other Delta Tau Form Factors:
- Turbo PMAC Clipper and Turbo PMAC2A/PC104: ACC-84S
- Compact UMAC (CPCI): ACC-84C
- The Brick Family of products when ordered with the proper option (OPT 4D1-6)

Single Source Machine Control   **Power ~ Flexibility ~ Ease of Use**

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