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IP Encoder Interface



Model 14 High-Speed Encoder Interface (4 or 6 Axes)

The Model 14 provides full-featured position feedback or event counting for high-speed applications. The independently-controlled, 24-bit programmable counters can produce overflow/underflow, index and compare interrupts. Index can reset, capture, load or gate the counter. The 14 also offers axis-programmable, digital filtering of the input quadrature clocks and features an interval mode for easy velocity measurement.

- **8.0 MHz Quadrature Count Rate Per Axis (Unfiltered)**
- **2.0 MHz Pulse Rate Per Axis**
- **Independent 24-Bit Counters**
- **Quadrature Input Error Detection**
- **Programmable Count Modes: Normal, Divide by N & One Shot**
- **2 Differential & Bidirectional Trigger/ Synchronize Channels**
- **On-the-Fly Position Capture/Trigger**
- **Programmable 24-Bit Preset Registers**
- **Programmable Input Polarity**
- **Programmable Index Input Functions**
- **2 Programmable Interrupts**
- **Independent or Multi-Axis Counter Reset**

Ordering Information:

14-4 (4 Axes) **$625**

■ **14-6 (6-Axes)** **$725**

14 DEV **$225**
The Development Kit includes all manuals, software drivers/demos, ribbon cable, screw terminal board, VisSim and *Designing with Motion Handbook.*

14 HD-DEV **$295**
Development kit for the Model 5642 Carrier

14 MAN **$25**
Hardware & Software Manuals

CAB50N-36 (per IP) **$35**
IP Interface Cable (36")

TB50N-S (per IP) **$70**
50-Pin Terminal Board

Specifications:

Dimensions:
3.9 x 1.8 x 0.3" (99 x 48 x 8mm)

Maximum Encoder Counts:
± 8,388,607 without interrupts
± Infinity with interrupts

Voltage Requirements:
+ 5V @ 350mA

Online Datasheet:
http://www.tech80.com/models/14.html

IP Stepper Controller



Model 24 Stepper Controller (2 Axes)

Providing 2 axes of accurate step motion control, the Model 24 dedicates a controller to each axis to ensure that there is no degradation of performance in multi-axis applications. Each axis provides five output signals, six input signals and receives quadrature-style incremental encoder input.

- **400 KHz Step Rate**
- **Independent Axis Operation**
- **Programmable Accel/Decel, Velocity Profiles**
- **Accepts Inputs From Single-Ended or Differential Encoders with Index**
- **Supports GP I/O, Limit, Home & Ramp Down Functions**

Ordering Information:

■ **24** **$675**

24 DEV **$225**
The Development Kit includes all manuals, software drivers/demos, ribbon cable, screw terminal board, VisSim and *Designing with Motion Handbook.*

24 DEV-HD **$295**
Development kit for the Model 5642 Carrier

24 MAN **$25**
Hardware & Software Manuals

CAB50N-36 (per IP) **$35**
IP Interface Cable (36")

TB50N-S (per IP) **$70**
50-Pin Terminal Board

Specifications:

Dimensions:
3.9 x 1.8 x 0.3" (99 x 48 x 8mm)

Voltage Requirements:
4.75 to 5.25 VDC @ 775mA

Pulse Controller:
Type: Nippon Pulse PCL-240MK
Rate: 400k pps
Counter Resolution: 24 bits
Encoder Input Pulse Width:
375 nanosec. minimum
5.0 MHz count rate for X4 decoding

*To Order, Call **800-545-2980** or **612-542-9545** • Quantity Discounts Available*
■ *Models Most Available in Stock*

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