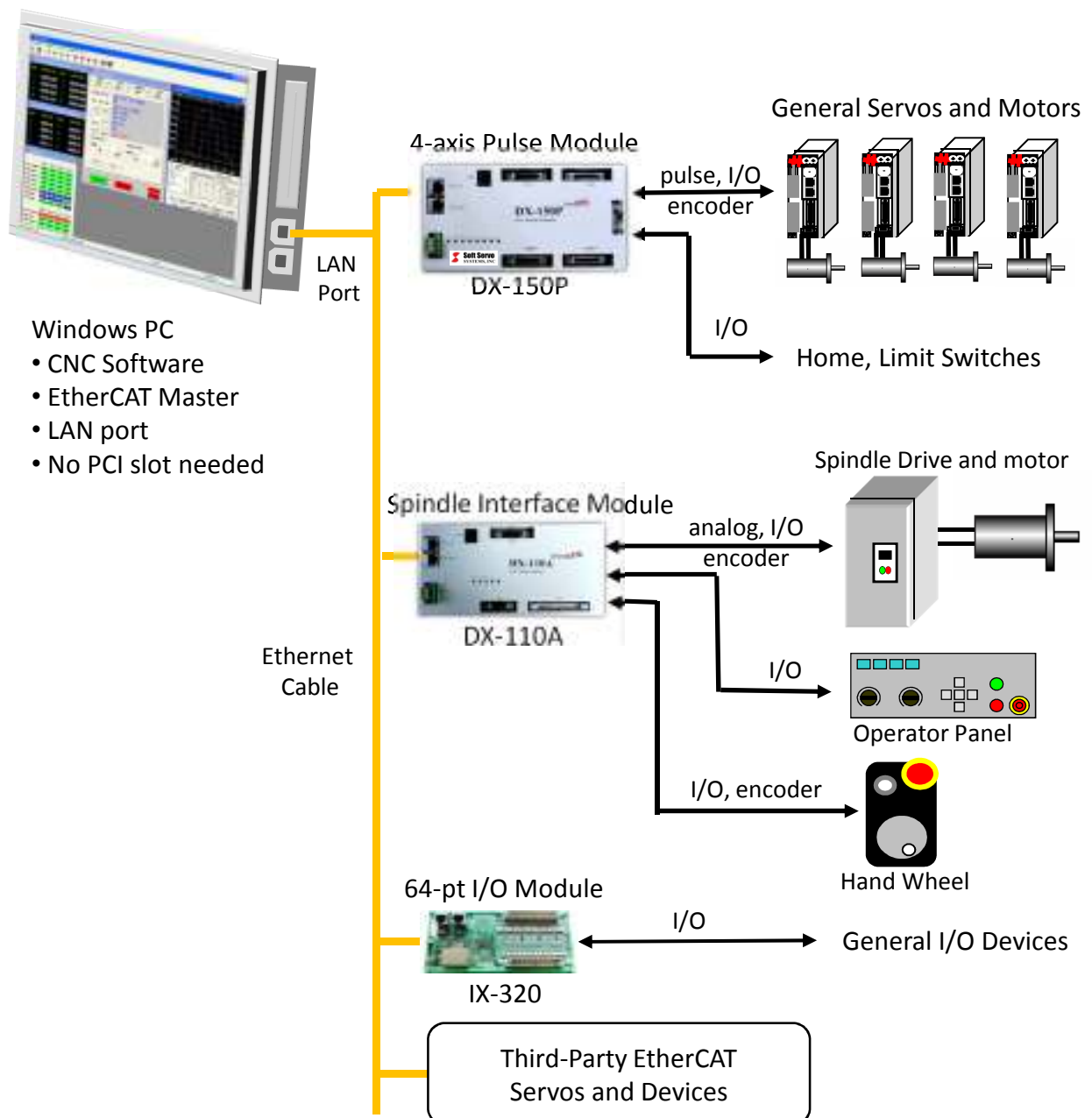


EtherCAT Slave Modules for CNC Applications DX-150P/DX-110A/IX-320



4-axis Pulse Module, Spindle Interface Module, and 64-pt I/O Module, controlled by Soft Servo's EtherCAT CNC software, provide a Perfect CNC Solution for Pulse Servos

- Without a board, fast synchronized controlling as EtherCAT master on PC with a LAN port
- Low-cost EtherCAT modules provide an affordable CNC solution for machine tool industries
- Can easily extend the system with third-party EtherCAT devices including servos and I/O modules



EtherCAT Slave Modules Major Specifications

DX-150P: 4-Axis Servo (Pulse) Interface Module

Communications	EtherCAT (CoE)
Number of Servo per axis	4 axes
Daisy Chainable	Yes
Servo Types	DC/AC servo drive, spindle drive, stepping drive
Supported Mode	Pulse Mode (pulse output)
Encoder Type	4 channels, incremental encoders (A/B)
Encoder Counter	32 bits per axis
Maximum Frequency of Encoder Pulse Input	20Mpps (quad edge evaluation), line receiver
Pulse Outputs	Number of channels: 4 Pulse Types: pulse/dir, CW/CCW, A/B Max. Pulse Frequency: 20Mpps (line driver)
Committed Digital I/O per axis	<ul style="list-style-type: none"> • Servo commands (outputs): 6 points (sink) • Servo status (inputs): 4 points (source) • Switches: 4 points (Home and two Limits, source)
Input Power	24 VDC \pm 15%, maximum load current 800 mA
Output Power for Servo-Related I/O	24 VDC \pm 15%, maximum total load current 500 mA

DX-110A: Spindle and CNC Interface Module

Communications	EtherCAT (CoE)
Number of Spindle Axes	1 axis
Spindle Types	DC/AC servo motors, spindle drive
Supported Mode	Velocity Mode (Analog Output)
Encoder Type	2 channels, Incremental encoders (spindle and handwheel)
Encoder Counter	32bits per axis
Maximum Frequency of Encoder Pulse Input	20Mpps (quad edge evaluation), line receiver
Analog Outputs	1 channel, 16 bits, \pm 10V, \pm 2%
Committed Digital I/O	<ul style="list-style-type: none"> • Spindle commands : 8 points, including Direction command • Spindle states : 8 points • Handwheel: 12 input points (E-STOP, multiplication and axis selection)
General Uncommitted Digital I/O	16/16 points, mainly for a matrix operator panel
Input Power	24 VDC \pm 15%, maximum load current 500 mA
Output Power for Spindle-Related I/O	24 VDC \pm 15%, maximum total load current 150 mA
Output Power for Encoders (Handwheel)	5 VDC \pm 15%, isolated, maximum load current 250 mA/unit

IX-320: 32/32-Point I/O Module

Communications	EtherCAT (Simple I/O)
Number of Digital Inputs	32 Points, optically isolated (source)
Number of Digital Outputs	32 Points, optically isolated (sink)
Daisy Chainable	Yes
Input Power	24 VDC \pm 15%, maximum load current 1000 mA
Output Power for I/O	24 VDC \pm 15%, maximum total load current 750 mA

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