

EasyIO FS-32

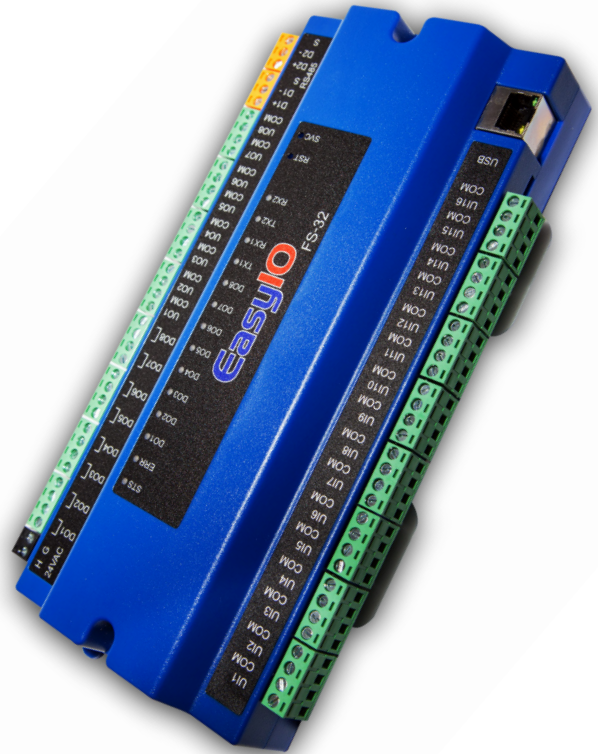
32-POINT, IP CONTROLLER

The FS-32 is a high-performance network controller with a 1.2 GHz quad core processor, 512 MB RAM, 8GB flash memory, HTML5 graphics, a suite of applications and kits, and multifunctional adapter widgets.

The FS-32 offers incomparable performance and live programming via EasyIO CPT Tools. The FS-32 supports the latest IT network and security standards. The built-in VPN allows for secure remote connectivity, a unique feature in a controller.

Protocols such as BACnet, Modbus, MQTT, Sox, and TCom are supported. The FS series includes SQL database and REST API for additional data integration and multi-system interoperability. Flash RAM enables data collection and storage at the device.

The FS-32 has 16 UI, 8 UO, and 8 DO. Input point capacity can be expanded using the FD20i. Device and engineering licenses and annual maintenance upgrades are included in the one-time cost of the controller.



FEATURE HIGHLIGHTS

- On board 8GB of EMMC for storage and history
- Supports Enterprise Network Security 802.1x and TLS 1.2, SSL, IPv6 and DHCP Client
- BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/Slave, Modbus TCP Master/Slave, MQTT, TCOM, SOX
- EasyIO Peer to Peer Protocol, compatible with FS, FG+, FW and FT Series
- Built-in HTML 5 web server and SSL certificate support
- RESTful API and graphics web services
- Built-in VPN Server and Client
- Network Time Protocol (NTP) Client
- SMTP protocol (outgoing email) with SSL authentication
- SQL Lite up to 100,000 records
- Built-in dashboard

SPECIFICATIONS

| | |
|---------------------------------|---|
| Power Supply | 24V AC +/- 5% or 24V DC +20% / - 15% |
| Consumption | 18VA |
| Current Rating | 750 mA at 24VAC/VDC |
| Storage Temp | -20 to 85 oC (-4 to 185 oF) |
| Operating Temp | 0 to 65 0C (32 to 150 oF) |
| Operating Humidity | 10% to 90% Relative Humidity non-condensing |
| Dimension | 198 x 104 x 44 (mm), 7.8 x 4.1 x 1.7 (inches) |
| Material | UL Approved |
| Weight | 436g / 15.4 oz |
| Main Processor | 1.2 Ghz Quad Core ARM A7 |
| Processor | ARM Cortex A0 48 Mhz |
| Flash Memory | 8 GB |
| RAM | 512 MB |
| SD card Holder | Yes. For Application backup Storage |
| Ethernet | 1 x Ethernet Port 10Mb/100Mb 10Base-T/ 100Base-T interface, half or full duplex |
| RS 485 Ports | 2 x RS485 |
| Real Time Clock (RTC) | Real Time Clock with min 5 days backup by superCAP |
| Power Failure Protection | SuperCap Apps Safety Backup |
| Network Security Standard | IPv6, DHCP Client, SSL, TLS 1.2, 802.1x VPN Client and Server |
| Database and API | MQTT, SQL database and REST API |
| Protocols Supported | BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/Slave, Modbus TCP Master/Slave, TCOM, web services, HTML5, SOX |
| Email Service | SMTP protocol (outgoing email) with SSL authentication |
| Time Sync Protocol | Network Time Sync Protocol |
| Modbus Baud Rate | Speed : (9.6K, 19.2k, 38.4K, 57.6K) , Data Bits : 8 , Parity : Odd, Even, None |
| BACnet Baud Rate | Speed : 9.6K, 19.2k, 38.4K, 76.8K |
| Universal Inputs | 16 x UI , 12-bit ADC with PGA Resistance Mode : 500 - 500K Ohms (+/- 10 Ohms) Voltage Mode : 0-10V (+/- 0.05V) Current mode: 0-20mA DC (+/- 0.01 mA) Impedance <25 Ohms Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz) Digital mode : Voltage Free Contact |
| Digital Output | 8 x DO (with LED Indicator) |
| | Type: Relay Contacts, SPST NO, 48VA/2A at 24V |
| Universal Output | 8 x UO, 12-bit DAC Voltage mode: output range 0-10V DC, Min Load Impedance 2,000 Ohm. Maximum 5ma current draw Current mode: 0-20mA, Max Load Impedance 800 Ohm. Digital mode: maximum sinking current 200mA (for Switching Relays) |
| SKU | EasyIO-FS-32 EasyIO-FS-32M (US only) |
| Warranty | Yes, Ask your local representative |
| Certifications | CE, BTL, UL, FCC, RoHS |
| Engineer Tool | CPT |
| Product and Engineering License | Included |
| Annual Maintenance | Included |
| Contact | www.easyio.com |