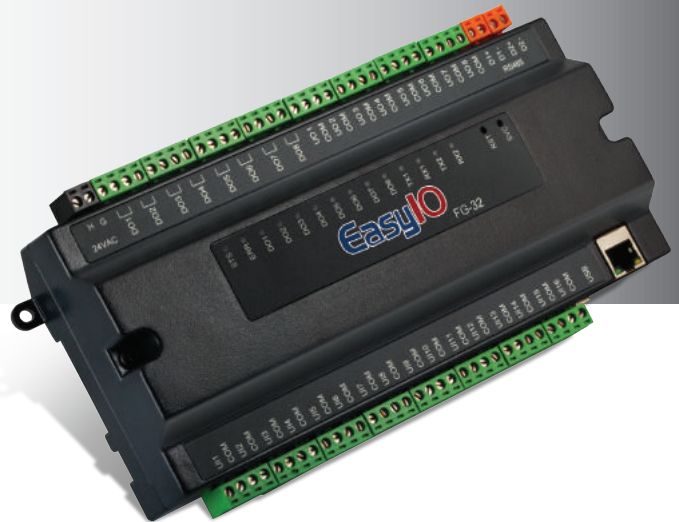


FG-32

DDC Energy Controller, Internet and Cloud Ready

- ❖ ARM 9 S3C2410 200MHz Main Processor
- ❖ M3 Cortex Processor for the I/O
- ❖ 16 Mbyte NOR Flash
- ❖ 64 Mbyte SDRAM
- ❖ SD Card Reader for Histories and Graphics
- ❖ 1 x 10/100 Ethernet Port
- ❖ 1 x Mini USB
- ❖ 2 x RS485
- ❖ RTC
- ❖ SuperCap Apps Safety Backup
- ❖ 24V AC/DC Power
- ❖ 16 x UI
- ❖ 8 x DO/LED for Status
- ❖ 8 x UO (200mA sink for Switching Relays)
- ❖ Remote Flash Upgrades
- ❖ HTML5 Web Server on Board!



The new FG series of Open Automation Controllers from EasyIO are the new range of Internet ready Field Controllers. They comprise of combined Area Controller capabilities and features, as well built in I/O, and huge data logging capacity, all packaged as the future solution for the Internet of things, in Energy and Building Facility Control. The Controller also supports multi concurrent protocols and services such as BACnet, Modbus, TCOM, Web Services, and both Server and Client services.

This new range complies with the 'Internet of Things' by interfacing directly to Cloud Services, without an additional Gateway, or Server. To power the application, The FG has a dual ARM processor engine, and also a built-in Web Server.

The FG series change the way that we will deploy Building Automation, especially in multiple Facilities and locations, whereby, a starter package can be deployed quickly, and cost effectively, without any additional hardware or middleware. We see this range of FG Controllers allowing us and the industry to extend their reach deeper and wider into all kinds of Energy Performance Solutions. Ranging from Retail Stores, Schools, and Residential, Smart Grid and so on.

Another exciting feature, is the openness, and its web friendly tools to enable 3rd Party Tools to be deployed in addition to the Workbench that we are all familiar with today. This platform will meet the needs of simple controls requirements and complex HVAC plants, such as Chiller Sequencing and Roof Top Control. Truly a welcome change!

Graphics will also be served from the FG Engine, nicely embedded in the Linux OS. To compliment this there will be third party Graphics Tools that will be used to design and implement Graphic Screens, the content being stored in the built-in micro SD Card slot (up to 16GB).

Features

- ❖ Power! - TWO ARM processors
- ❖ Memory/Storage - SD Card and massive history storage
- ❖ Supports BACnet, TCOM, Modbus and Web Services
- ❖ Fills a Gap in the market, between an Area Controller and the EasyIO 30P controller
- ❖ HTML5 Graphics! - IPAD friendly

Specifications

- ❖ ARM 9 S3C2410 200MHz Main Processor
- ❖ M3 Cortex Processor for the I/O
- ❖ 16 Mbyte NOR Flash
- ❖ 64 Mbyte SDRAM
- ❖ SD Card Reader
- ❖ 1 x 10/100 Ethernet Port
- ❖ 1 x Mini USB
- ❖ 2 x RS485
- ❖ RTC
- ❖ SuperCap Apps Backup
- ❖ 24V AC/DC Power

Device Info

| | |
|-------------|--|
| Model | EasyIO-FG-32 |
| Description | EasyIO-FG32 Sedona series: 32 I/O Controller |
| Name | FG32 DDC |

Device Specifications

| | | |
|------------------|--|--|
| Mechanical | Dimensions | 9.2 in x 4.9 in x 1.7 in (233 mm x 124 mm x 44 mm) |
| | Material | UL Approved Plastic |
| | Weight | 800gram |
| Electrical | Power Supply | 24V AC +/- 5% or 24V DC +20%/-15% |
| | Consumption | 18VA |
| | Current Rating | 750mA at 24VAC/VDC |
| | Operating Temp | 32 to 150°F (0 to 65°C) |
| | Storage Temp | -4 to 150°F (-20 to 65°C) |
| Inputs & Outputs | Operating Humidity | 10% to 95% relative humidity non-condensing |
| | UO: 3 modes. Voltage mode, output range: 0-10V; Current mode, output range: 0-20mA; Digital mode, maximum sinking current: 200mA DC only at 200mA max. | |
| | UI: 5 modes: Digital mode, voltage free contact input, Resistance mode, input range: 500-500Kohm; Voltage mode, input range: 0-10V; Current mode, input range: 0-20mA; Pulse count mode, maximum pulse frequency: 20Hz | |
| | DO: Relay output with contact rating 1A 30VDC | |

Communication

| | |
|---------------------------------------|---|
| Physical Interface 1 & 2 (Port 1 & 2) | EIA-485 (BUS A, B) Two-wire, Half Duplex |
| Modbus Baud Rate | Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd) |
| Bacnet Baud Rate | Speed: (9.6K, 19.2k, 38.4K, 76.8K), Data Bit: (8 bits), Parity: (None) |
| Ethernet Support | IP, TCP, UDP, ICMP, HTTP, FTP |
| Application Support | Sox, TCOM driver, Modbus, BACnet |

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