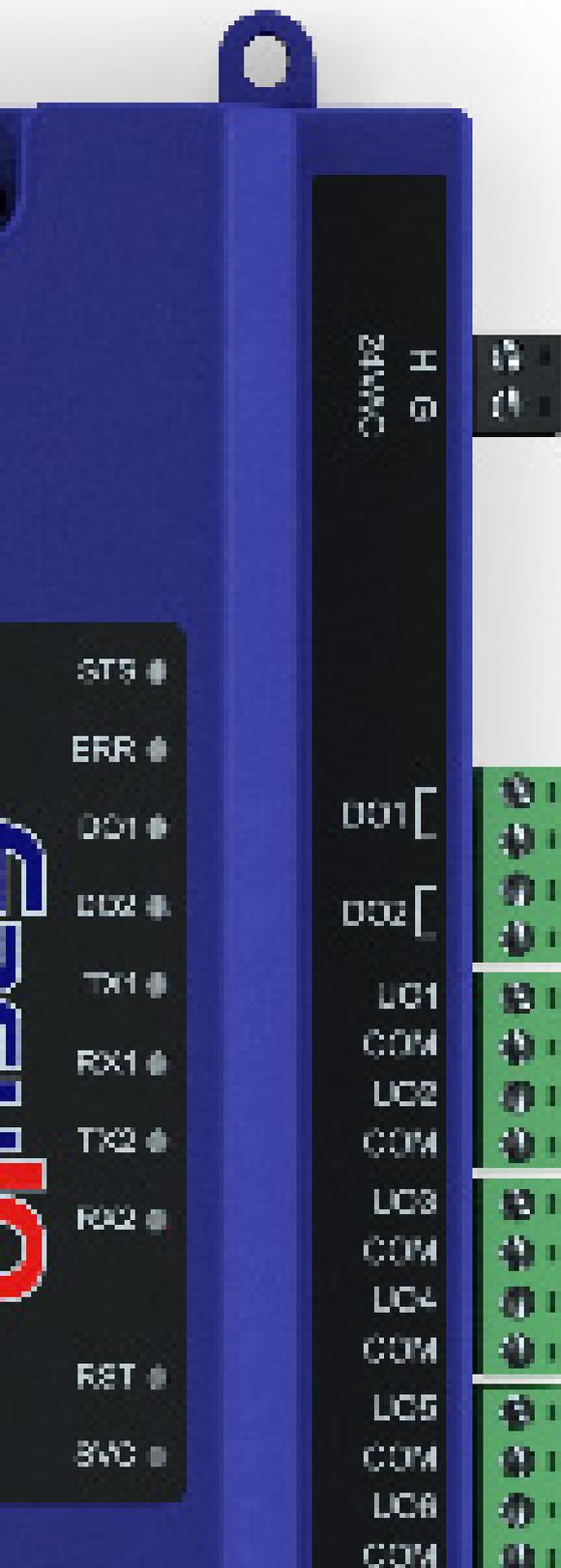


EASYIO FS-20 CONTROLLER



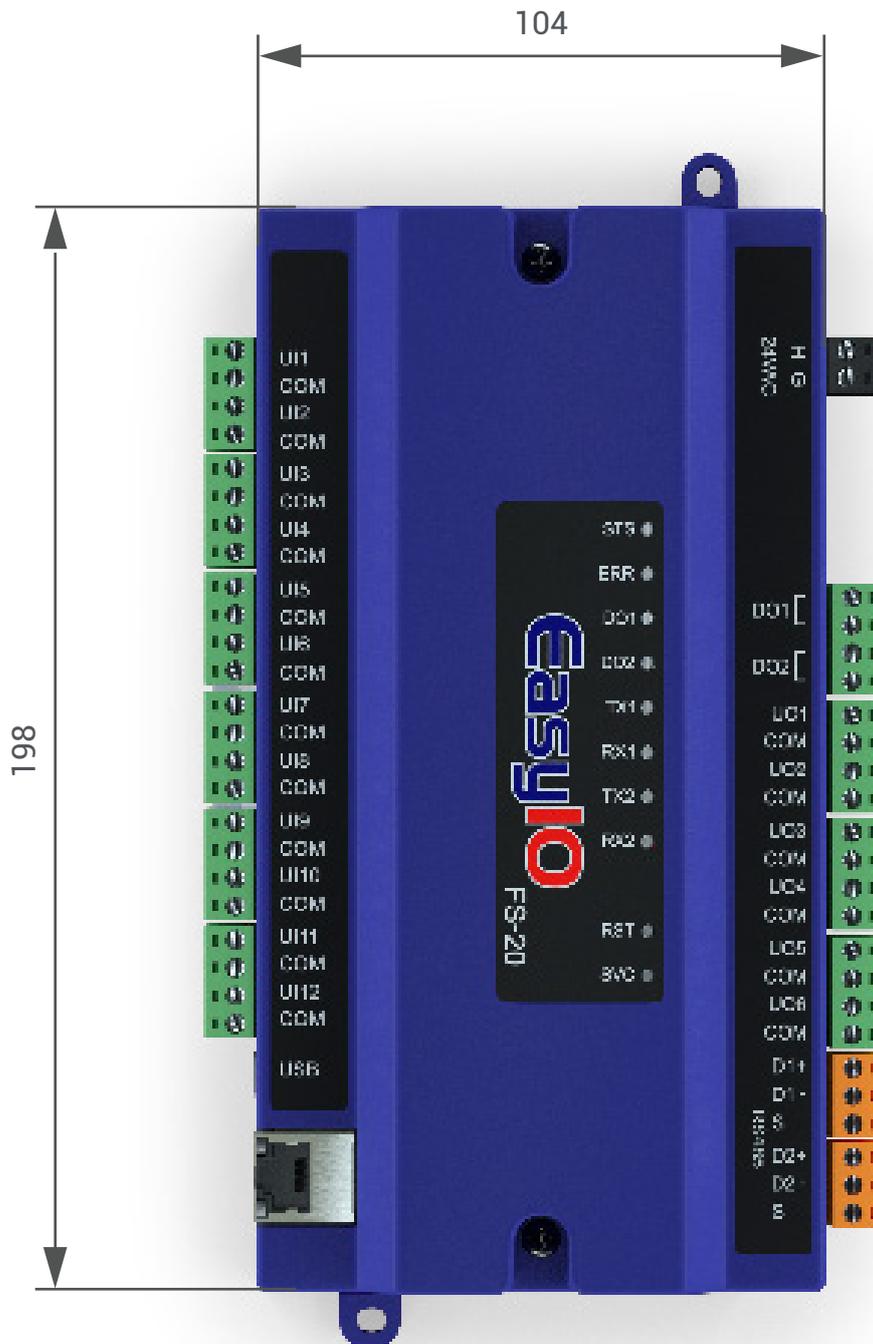
20 POINT SERVER CLASS IP CONTROLLER



The FS-20 is a high performance server class controller with a 1.2 GHz quad core processor, 512 MB RAM and 8GB flash memory, powerful capabilities with HTML5 graphics and multifunctional adapter widgets. The built-in VPN client/server allows for secure remote connectivity, in line with your clients corporate policy, it is a unique feature for BMS controllers. The FS-20 supports IT standards, such as IPv6, 802.1x, MQTT and REST API.

The FS-20 has incomparable industry performance, allows for flexible design, and is a natural extension on the already successful FS series controllers permitting secure integration at a BMS and IoT level. The FS-20 is freely and live programmable via the EasyIO CPT Tools and supports all BMS protocols such as BACnet, Modbus, Sox, TCom and can be integrated to leading head ends and enterprise

THE DIMENSIONS



THE SPECIFICATIONS

DETAILS:

<i>Power Supply</i>	24V AC +/- 5% or 24V DC +20%/-15%
<i>Consumption</i>	18VA
<i>Current Rating</i>	750mA at 24VAC/VDC
<i>Operating temp</i>	0 to 65 °C (32 to 150 °F)
<i>Storage temp</i>	-20 to 65 °C (-4 to 150 °F)
<i>Operating humidity</i>	10% to 70% relative humidity non-condensing
<i>Dimensions</i>	198 x 104 x 44 mm (8,5 x 4,9 x 1,7 inch)
<i>Material</i>	UL Approved
<i>Weight</i>	436g

INPUTS & OUTPUTS:

<i>Universal Input</i>	12xUI 12-Bit ADC (with PGA) 5 modes: Digital mode: voltage free contact input Resistance mode: input range 500 - 500 KOhm Voltage mode: input range 0-10V Current mode: input range 0-20mA Pulse count mode: maximum pulse frequency: 20Hz
<i>Digital output</i>	2xDO (with LED's for status) Relay: output with contact rating 1A 30VDC
<i>Universal Output</i>	6xUO 3 modes: Voltage mode: output range 0-10V (min impedan- ce 1k Ohm) Current mode: output range 0-20mA Digital mode: maximum sinking current 200mA for Switching Relays

THE SPECIFICATIONS

COMMUNICATION:

<i>Physical Interface 1 & 2 (Port 1 & 2)</i>	EIA-485 (BUS A,B) Two-wire, Half Duplex
<i>Modbus Baud Rate</i>	Speed: (9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s), Data Bit: (8 bits), Parity: (None, Even, Odd)
<i>BACnet Baud Rate</i>	Speed: (9.6K, 19.2k, 38.4K,78.6K), Data Bit: (8 bits), Parity: (None)
<i>Ethernet Support</i>	IPv4, IPv6, TCP, UDP, ICMP, HTTP(S), (S) FTP, Samba, DHCP client
<i>Application Support</i>	Sox, TCom, Modbus, BACnet, P2P, MQTT publisher, REST API
<i>Security</i>	VPN client/server, 802.1x, TLS 1.2

CHARACTERISTICS:

- 1.2 Ghz Quad Core ARM A7 main processor
- 48 Mhz ARM Cortex-M0 processor for the I/O
- 512MB Gbyte RAM
- 8GB NAND Flash
- SD card holder
- 1 x 10/100 Ethernet Port
- 1 x Mini USB
- 2 x RS485
- Real Time Clock
- SuperCap Apps Safety Backup
- 24V AC/DC Power
- Remote Flash Upgrades

KEY FEATURES

- 2 processors, main processor is 1.2 Ghz Quad Core
- Memory/Storage – 8GB EMMC on board and history storage
- Supports BACnet, Modbus, TCom and Sox protocols
- Supports MQTT publisher, REST API and other web services
- Built-in VPN client and server, IPv4, IPv6, 802.1x, TLS 1.2
- Programmable gain amplifiers for all UI channels for higher precision at lower range.
- Nginx Web Server Engine for HTML5 graphics



{REST:API}

sedona



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