Splinter-1603

IoT Controller and Gateway
(Gigabit Ethernet, HDMI and Dual Serial ports)

Features

- ARM Quad Core A-72 processor
- 2 x RS-485 isolated serial ports
- 1 x Gigabit Ethernet port
- 1 x Standard HDMI port
- 1 x Standard USB2.0 port
- Supports cloud based remote configuration
- Supports USB and OTA firmware updates
- Plug-and-Play support for GridOnCloud Energy Management System
- Wide Operating temperature: 0 ~ 60°C

Introduction

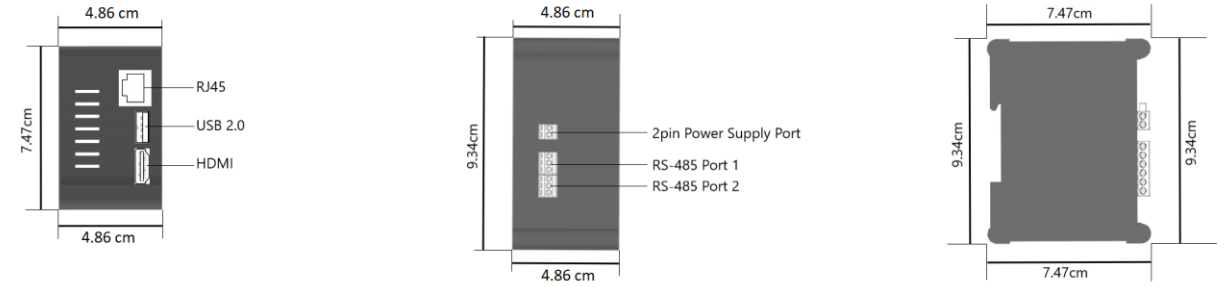
For facility monitoring, distributed solar power, smart factory automation, and cloud-based applications which require a communication solution with high compute power, IED Quest has released the Splinter-1603 industrial gateway. Splinter-1603 has Quad Core A-72 processor, dual isolated RS-485 ports, a Gigabit ethernet port and operating temperature range of 0~60°C. Splinter Series Controllers have a pre-installed firewall inbuilt for security, and supports OTA firmware and configuration updates to reduce site visits and installation costs. With Linux operating system, Splinter IoT runtime software and preinstalled Node-Red, Splinter-1603 enable system integrators to develop applications which precisely fit their needs.

Specifications

System	CPU	Quad Core A-72 @ 1.5GHz
	RAM	1GB LPDDR4-3200 SDRAM
	Storage	8GB onboard
	LED Indicators	Power, LAN (LINK, ACT)
	Real Time Clock (Optional)	Battery backed RTC CR2032
	Protocols	Modbus RTU/TCP, MQTT, AMQP, BACnet (Optional)
I/O Interfaces	Serial Ports	2 x RS-485 (isolation 3000VDC) 3-Pin Terminal Block, 50 ~ 115.2kbps
	LAN Ports	1 x Gigabit Ethernet (RJ45)
	USB Ports	1 x USB2.0
	Display Ports	1 x Standard HDMI
	Wi-Fi (Optional)	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless
	Hardwired IOs (Optional)	3 x Isolated Digital Inputs (3V to 48V) 3 x Relay Output, 5A(NO)/3A(NC) - 240VAC / 24VDC
General	Dimensions (H x D x W)	93.4 x 74.7 x 48.6 mm
	Form Factor	Small Size
	Mounting	DIN-Rail Mount
	Weight (Net)	0.3kg
	Power Requirement	8 ~ 28 VDC
	Power Consumption	1.2W @ 24VDC
	Power Connector	1 x 2-Pin Terminal Block
	Isolation Protections	Unibody power supply isolation, unibody digital isolation, Onboard TVS
Environment	Operating Temperature	0~60°C
	Storage Temperature	-10~75°C
	Relative Humidity	95% (non-condensing)

Dimensions

Unit: cm



Ordering Information

Splinter-1603-**XX-XX-IRW**

W -> 2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless with Antenna or None
R -> Battery backed RTC CR2032 or None
I -> 3 x Digital Inputs with 3 x Relay Outputs or None

08 -> 8GB Storage
16 -> 16GB Storage

01 -> 1GB SDRAM
02 -> 2GB SDRAM