

FP INOVOLABS GMBH: FP S-ENGUARD W640 LAN



Physical Properties

Programming Interface	TiXML (XML compatible script language)
Device Size	(271 x 214 x 60) mm
Weight	1.3 kg
IP Class 1st Digit	6 - Totally protected against dust ingress.
IP Class 2nd Digit	5 - Protected against water projected by a nozzle (6.3 mm) against enclosure from any direction.
Operating Temperature	min. -25°C, max. 65°C
Storage Temperature	min. -40°C, max. 85°C
Operating Humidity	max. 5 - 95 % non-condensing
Storage Humidity	max. 5 - 95 % non-condensing

Electrical Characteristics

External Voltage	110 - 240 V AC
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System Characteristics

Processor	400 MHz, ARM9, ATMEL SAM9-G25
Flash	128 MB on-board
RAM	128 MB DDR2

Connectivity

Ethernet	Yes
WiFi	Optional

I/O

RTC	Yes
Number of Ethernet Ports	1
Data transfer rate of Ethernet Port(s)	10/100 Mbps
USB	Yes
RS 232	Yes
RS 485	Yes
I2C-Bus	Yes
1-wire	Yes
Digital In	2
Others	UART Full+Lite, JTAG, GPIO, up to 10 direct current signals are supported, via 1-wire up to 30 temperature sensors, 2x 230 V / 5A relays, 1x 24V / 90 mA power supply for external sensors

Internal Sensors

Internal Temperature Sensor	DS18B20
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Supported Protocol Layers / Frameworks

Siemens S7	Yes
Siemens Logo	Yes
Modbus TCP	Yes
Modbus RTU	Yes
M-Bus	Yes
Other	ABB, Mitsubishi, Moeller/Eaton, Allen-Bradley, Schneider, Crouzet, VIPA

Certification

CE	Yes
RoHS	Yes
WEEE	Yes
WEEE valid for	DE

Cloud of Things

Connectivity with CoT	MQTT
SmartREST	Yes
SmartREST Prefix	FPIL_TIXIGW_100

Safety and Security

TLS	1.2
Encryption mechanisms	AES

Contact

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