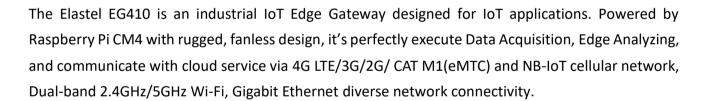


High-performance Industrial Edge Computing Gateway

- High-performance Raspberry Pi Compute Module 4 Cortex-A72 @ 4x1.5GHz
- Global 4G LTE/3G/2G/NB-IoT Cellular network, LoRa optional
- Gigabit Ethernet ports for configurable WAN/LAN
- Dual-band 2.4GHz/5GHz Wi-Fi
- 35mm DIN-Rail and wall mount Supported
- Isolated RS485, RS232, DI & DO ports for industrial
- Fanless design with full aluminum heatsink enclosure
- -25°C to +70°C Operating Temperature for harsh environment
- Optimized OpenWRT OS with Raspberry Pi programs Compatible





















Equipped with industrial-grade RS232, RS-485, DI, DO interfaces, and Optimized OpenWRT based OS, EG410 was designed for easy deployment of typical industrial applications, such as smart grid, transportation management, public utilities remote monitoring and control, digital signage, and industrial automation, etc.















Specifications

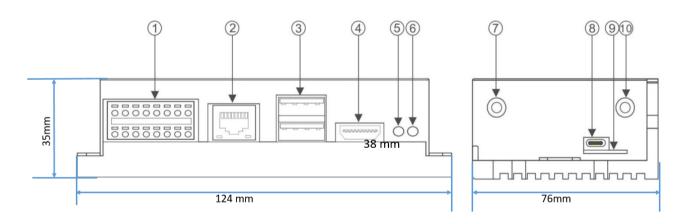
Hardware platform				
CPU	Broadcom BCM2711, Quad-core A72 (ARM v8)@ 1.5 GHz			
Memory	2GB (1GB/4GB/8GB optional) LPDDR4			
FLASH	8GB (16GB/32GB optional) eMMC			
Network & Interfaces				
Ethernet	Gigabit Ethernet x 1, (1-WAN or 1-LAN Configurable)			
Cellular	4G LTE CAT4/CAT6, 3G, 2G, NB-IoT, CAT-M1			
Wi-Fi	Dual Band 2.4GHz & 5GHz + Bluetooth 5.0			
GPS	Cellular Module built-in supported (Optional)			
an a	1.8 V/3 V; drawer-type Nano card holder × 1			
SIM	15KV ESD Protection			
Antenna	4G: SMA x 1、WiFi/Buletooth: SMA x 1			
In description Control Description	RS-232 x 1, RS-485 x 1;			
Industrial Serial Port	RS-232: TXD, RXD, GND; RS-485: A, B, GND; ESD protection: 15KV			
	2-channel digital input DI			
1/0	2-channel digital/pulse output DO			
LICE	USB 2.0 x 2 for peripherals,			
USB	USB-C x 1 for Console			
HDMI	HDMI 2.0 x 1, (Up to 4kp60 video & audio output)			
	1 x M.2 socket with 2280 NVME SSD support			
Additional drive	Standalone Watchdog timer			
Power				
Power supply	Wide Range Voltages 9~36V DC/1A			
Power Terminal	Unpluggable industrial terminal connection			
Power consumption	Less than 10 W (system)			
(Optional) Real-time clock (RTC)	Embedded RTC, power supply with a supercapacitor			
Mechanical features				
Protection	IP20			
Housing	Aluminum Heatsink			
Cooling	Fanless cooling			
Dimensions (cm)	124mm x 76mm x 35mm			
Installation	DIN-rail, wall mounting			
Ambient temperature and humidity	•			
Storage temperature	-30 ~ 75°C			
Ambient humidity	5 ~ 95% (non-condensing)			
Operating temperature	-25 ~ 70°C (industrial grade)			
EMC index				
Static electricity	level 3			
Radiated electric field	level 3			
Surge	level 3			



Industrial IoT Gateway EG410

Others				
Certification	CE			
Warranty	Standard 12 Months			
Software Features				
OS	Optimized OpenWRT V21 with SDK /Raspbian			
Configuration	WebUI, Local CLI, Remote configuration			
Upgrade operate	Local USB upgrade and remote upgrade (optional)			
Timed startup and shutdown	Supported			
	Data Acquisition, Modbus RTU, VPN, Router, Firewall, Media Player			
Application features	Python, Node-RED, Docker,			
	Support Secondary Development.			
	WWAN and WAN Failover, Load Balance,			
Network Features	PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP,			
	DHCP, RIPv1/v2, OSPF, BGP, DNS, DDNS,			
	Modbus RTU/TCP, Siemens S7, OPC UA, HTTP, MQTT, ARP, QoS, SNTP,			
	Telnet, SSH			

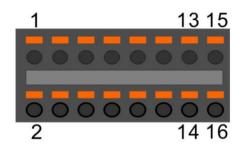
Interfaces & Dimensions



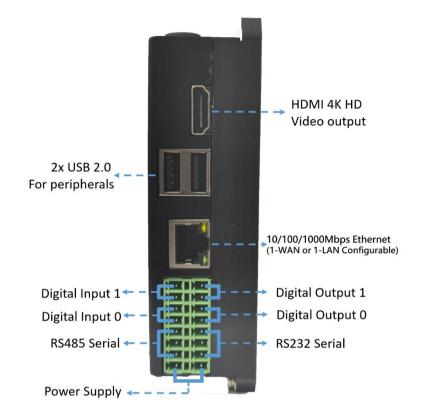
1	Multi-Func phoenix connector	6	LED1	
2	RJ45 Ethernet	7	SMA antenna 1	
3	USB 2.0 x 2	8	Console(USB type C)	
4	HDMI	9	SIM card slot	
5	LED2	10	SMA antenna 2	



Industrial IoT Gateway EG410



Func name	PIN#	PIN#	Func name
POWER	1	2	GND
RS485_A	3	4	RS232_RX
RS485_B	5	6	RS232_TX
RS485_GND	7	8	RS232_GND
DI0-	9	10	DO0_0
DI0+	11	12	DO0_1
DI1-	13	14	DO1_0
DI1+	15	16	DO1_1



About Elastel

Elastel Technology Ltd is a global leading design and manufacturing company providing industrial-quality wireless solution for IoT and M2M. Founded in 2018, Elastel leverages its independent research and development and innovation to pursue its core mission: "Streamline IoT communication development, shorten and simplify the process of system implementation"

The company's high-quality industrial Computer & Gateway hardware and software service enhance the IoT communication efficiency and competitive advantages of its customers all over the world.

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Technical Support

Send email to Elastel Support center (<u>support@elastel.com</u>) for firmware upgrade, product documents, FAQ, technical support and more.