

AiR PACE CX series

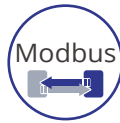
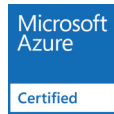
Industrial Smart IoT Edge Computing Gateway

Rediscover Data From The Edge

(Project base with quantity requirement)



qualified device
Internet of things



Product Highlights

Highly-reliable network connection

- Offers multiple Internet access methods: Gigabit Ethernet, Global 3G/LTE Cat. 4 networks
- With support of Dual-SIM, redundant link backup, and VRRP hot standby, the gateway ensures continuous connection by seamless transition to a backup link when main link fails

Powerful edge computing capabilities

- ARM Cortex-A53 processor, 1GHz main frequency, up to 1GB DDR3 RAM and 8GB eMMC FLASH give the gateway powerful Edge computing capabilities to perform data optimization, realtime response, agile connection, smart applications, security and privacy protection at the IoT Edge

Compatible with multiple industrial protocols

- Modbus RTU, Modbus TCP
- MQTT

Overview

AiR PACE, the EtherWAN Industrial Smart IoT Edge Computing Gateway for Internet of Things (IoT), is a configurable and manageable wireless gateway. AiR PACE features various interfaces and supports useful user application tools to meet IoT applications. It provides real-time data analysis and intelligent processing at the fieldbus Edge, which is more effective and secure. AiR PACE is Microsoft Azure IoT Edge certified and AWS IoT Greengrass qualified. Quick-to-deploy, the AiR PACE can be tailored to any IoT application needs.

Ordering Information

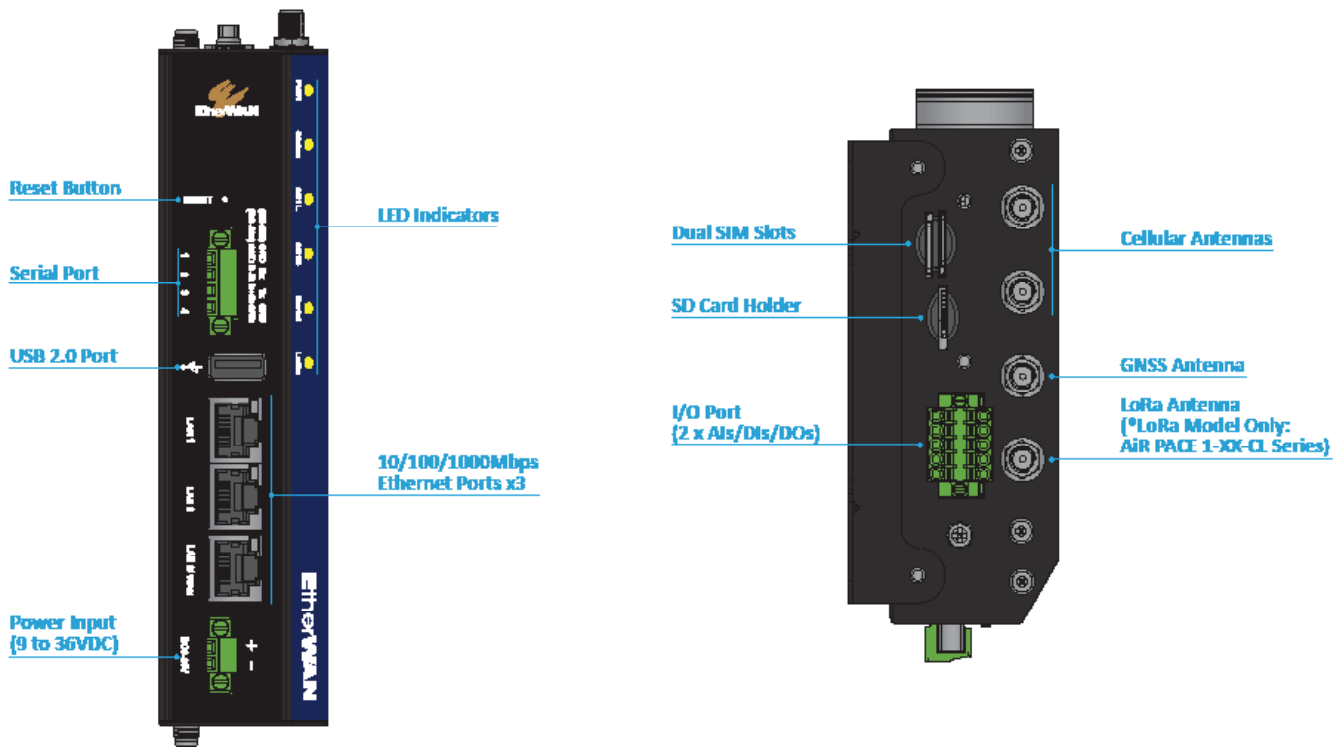
4G LTE Gateway	Description	RF	Region
AiR PACE 1-TA-CX	Industrial Smart IoT Edge Computing Gateway	Cellular LTE Cat. 4	Taiwan & Australia
AiR PACE 1-EA-CX	Industrial Smart IoT Edge Computing Gateway	Cellular LTE Cat. 4	EU & APAC

Frequency Bands Region Code Optional

Cellular (*AIR PACE 1-XX-CX Series)

Sku Code	4G LTE		3G	2G	Region
	FDD LTE	TDD LTE	WCDMA	GSM/EDGE	
TA	B1(2100)/3(1800)/4(AWS)/5(850)/7(2600)/8(900)/28(700 APT)	B40(2300)	B1(2100)/2(1900)/5(850)/8(900)	B2(1900)/3(1800)/5(850)/8(900)	Taiwan & Australia
EA	B1(2100)/3(1800)/7(2600)/8(900)/20(800)/B28A(700)	B38(TD 2600)/40(TDV 2300)/41(TD 2500)	B1(2100)/8(900)	B3(1800)/8(900)	EU & APAC

Appearance



Software Features

Functions		+
Cellular	3GPP, 3G/4G, IP Pass-through, IPv4 Band management for band lock	
Ether-WAN	Dynamic IP, Static IP, PPPoE, PPTP, L2TP	
Protocols	DHCP Server/Relay Port-based, Tag-based VLAN QoS LLDP	
Port Forwarding	NAT 1-1, 1-Many, transversal, Virtual Server/Computer, DMZ, VPN Passthrough	
Network Management		+
Configuration	Web Console, CLI, Command Script, Python	
Management	SNMP v1/v2c/v3, AiR PACE MIB	
System	Upgrade, Backup & Restore, Reboot & Reset, SysLog	
Diagnostic	Ping, Traceroute, Packet Analyzer, Sniffer (Field communicating data logging), Diagnostic tool	
Security		+
VPN	IPSec (Up to 16 Tunnels), OpenVPN, PPTP, L2TP, GRE	
Firewall	SPI Firewall with Stealth Mode, IPS	
Access Control	URL Blocking, URL Blocking, MAC Filter	

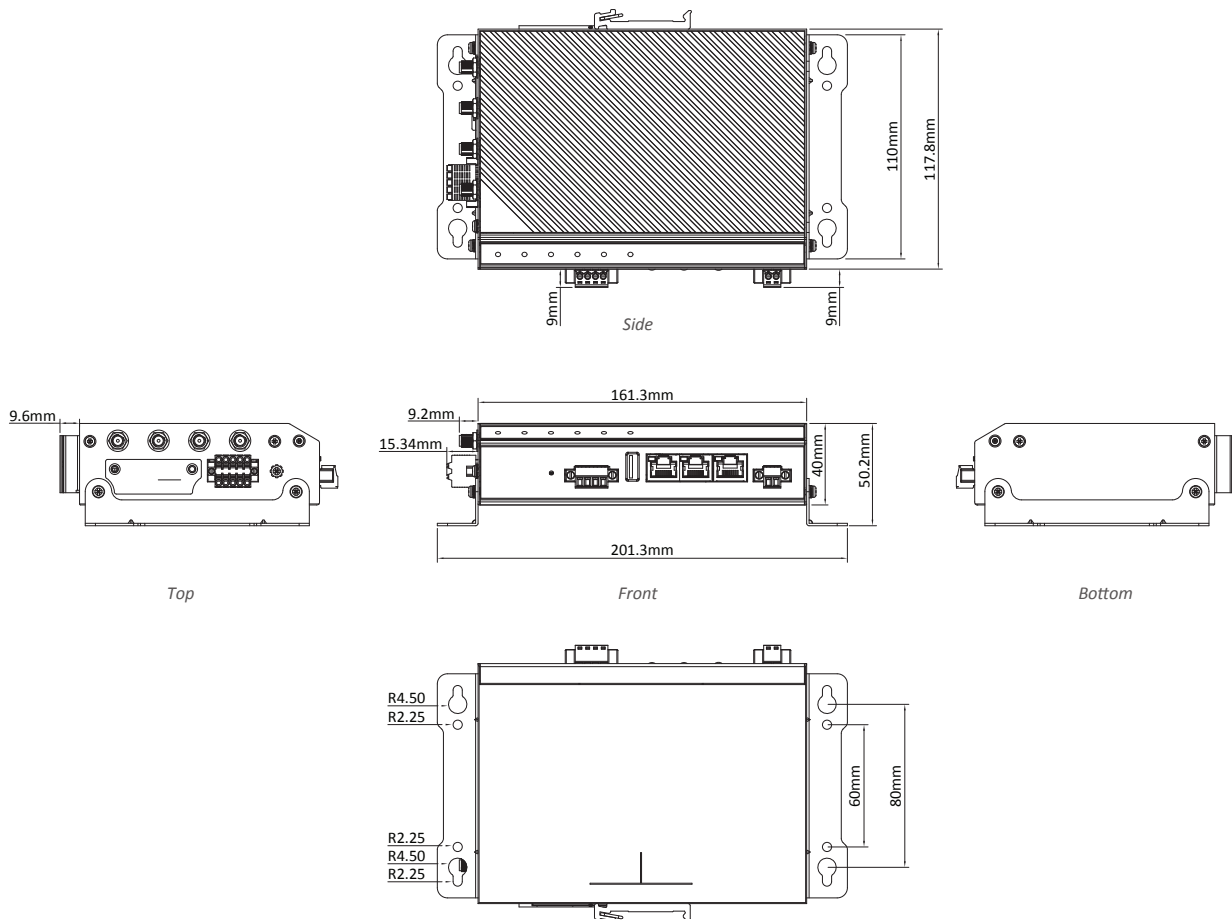
Field Communication		+
Virtual COM	RFC2217, TCP Client, TCP Server, UDP	
Modbus	Gateway for Modbus TCP, Modbus RTU/ASCII Master/Slave Access Slave for Device Status/Information Access	
Data Interchange	MQTT Broker, MQTT Client	
Data Logging	Sniffer, Off-line/Full-time Proxy, Mixed modes	
Service		+
Cellular Toolkit	Data Usage, SMS, SIM PIN, USSD, Network Scan	
Development Platform	Python Customization Development Amazon AWS Greengrass Microsoft Azure IoT Edge	
User Application Tool	Node-RED	

Hardware Specifications

Platform		+
CPU: ARM Cortex A53 1.35GHz Dual Core DRAM: 1GB DDR3 Memory Storage Pre-installed: 8GB eMMC Storage Slot: MicroSD Slot x 1 for SD 3.0 (SDXC) Compliant Storage Expansion		
Cellular		+
Standards	4G LTE: FDD-LTE, TDD-LTE, Transfer rate (max): LTE FDD: 150Mbps down; 50Mbps up LTE TDD: 130Mbps down; 35Mbps up 3G: WCDMA, Transfer rate (max): 42Mbps down; 5.76Mbps up 2G: GSM/EDGE, Edge Transfer rate (max): 236.8Kbps down & up	
SIM Slot	2 x microSIM card slots	
Ethernet		+
Standards	IEEE 802.3 10/100/1000BASE-T IEEE 802.3u 100BASE-T(X) IEEE 802.3ab 1000BASE-T(X) IEEE 802.1x Flow control Full/Half duplex mode Auto MDI/MDI-X connection Auto negotiation speed	
Ports	1 x RJ-45 GbE (WAN/LAN Configurable) +2 x RJ-45 GbE	
Serial		+
Ports	1 x RS-232/RS485 (4-pin Terminal Block)	
Signal	RS-232: Tx/D, Rx/D, GND RS-485: D-/A, D+/B, GND	
I/O		+
Analog Input	2 x AI Conversion: 12bit ADC Input Range: 0-10V Resolution: 2.5mV	
Digital Input	2 x DI (Isolated, "Logic 0": 0-2V, "Logic 1": 5-30V)	
Digital Output	2 x DO (Isolated, Non-Relayed Output, 24V/300mA for each port)	
Connector	10-pin Terminal Block	
USB		+
Standards	USB 2.0 Host	
Ports	1 x USB Type A	
Antennas		+
Cellular	2 x SMA Female (Main & Aux.)	

LED Indicators		+
System	PWR x 1; Status x 1	
Data	LAN1, LAN2, LAN3/WAN, 4G1L, Serial, LoRa* (*LoRa Model Only)	
CellularSignal	4G1S	
Power		+
Input	9-36VDC AiR PACE 1-XX-CX: 14.5Watts (Max.), 8.5Watts (Typical) AiR PACE 1-XX-CL: 17Watts (Max.), 11Watts (Typical)	
Physical		+
Casing Material	Metal Case	
IP Rating	IP30	
Dimensions	40 x 117.8 x 161.3mm (W x D x H) 40 x 127.4 x 161.3mm with DIN-Rail kit (W x D x H)	
Weight	0.76kg (1.67lbs)	
Installation Type	DIN-Rail mounting Wall mounting Bracket* (*Optional)	
Environment Limits		+
Operating Temp.	-30 to 70°C (-22 to 158°F)	
Storage Temp.	-40 to 85°C (-40 to 185°F)	
Relative Humidity	5% to 95% (non-condensing)	
Regulatory		+
Safety	EN 60950-1 EN 62368-1: 2014	
Emissions/Immunity	CE/NCC BSMI	

Dimensions



Application

