

Item no.: 385245

AIG-301-EU-AZU-LX - 2-port Modbus to Azure advanced IIoT gateways with Arm Cortex-A7 dual-core 1 GHz

from 1.179,02 EUR

Item no.: 385245
shipping weight: 0.80 kg
Manufacturer: MOXA



Product Description

2-port Modbus to Azure advanced IIoT gateways with Arm® Cortex™-A7 dual-core 1 GHz processor, Azure IoT Edge, LTE Cat. 4 module for EU region, -20 to 70°C operating temperature
 Computer CPU: Armv7 Cortex-A7 dual-core 1 GHz
 DRAM: 2 GB DDR3L
 Storage Pre-installed: 16 GB eMMC
 Pre-installed OS: Moxa Industrial Linux (Debian 9, Kernel 4.4)
 No. of Tags Supported: 2048
 Computer Interface TPM: TPM v2.0
 USB 2.0: USB 2.0 hosts x 1, type-A connectors
 Wi-Fi Antenna Connector: RP-SMA x 2
 Cellular Antenna Connector: SMA x 2 (excluding AIG-301-AZU-LX/T-AZU-LX models)
 GPS Antenna Connector: SMA x 1 (excluding AIG-301-AZU-LX/T-AZU-LX models)
 Expansion Slots: AIG-301-CN-AZU-LX/T-CN-AZU-LX: mPCIe slot x 2; All Other Models: mPCIe slot x 1
 Buttons: Reset button; Reset to factory default
 Digital Input: DOs x 4
 Number of SIMs: 2
 SIM Format: Nano (excluding AIG-301-AZU-LX/T-AZU-LX models)
 Ethernet Interface
 Magnetic Isolation Protection: 1.5 kV (built-in)
 10/100/1000BaseT(X) Ports (RJ45 connector): 2
 Ethernet Software Features
 Industrial Protocols: Modbus TCP Client (Master); Generic MQTT; Azure IoT Device; AWS IoT Core; Azure IoT Edge; OPC UA Server; Sparkplug B Client
 Configuration Options: Web Console (HTTP/HTTPS); ThingsPro Proxy Utility
 Time Management: NTP Server/Client; GPSSerial Interface
 Console Port: 1 x 4-pin header
 No. of Ports: 2
 Connector: DB9 male
 Baudrate: 300 bps to 921.6 kbps
 Data Bits: 7, 8
 Flow Control: ADDC (automatic data direction control) for RS-485, RTS/CTS, XON/XOFF
 Parity: None, Even, Odd, Space, Mark
 Stop Bits: 1, 2
 Serial Signals
 RS-232: Tx, Rx, RTS, CTS, DTR, DSR, DCD, GND
 RS-422: Tx+, Tx-, Rx+, Rx-, GND
 RS-485-2w: Data+, Data-, GND
 RS-485-4w: Tx+, Tx-, Rx+, Rx-, GND
 Serial Software Features
 Industrial Protocols: Modbus RTU/ASCII
 Master
 CAN Interface
 No. of Ports: 1
 Connector: DB9 male
 Baudrate: 10 to 1000 kbps
 Industrial Protocols: CAN 2.0A; CAN 2.0B
 Signals: CAN_H, CAN_L, CAN_GND, CAN_SHLD, CAN_V+, GND
 Isolation: 2 kV (built-in)
 Digital Inputs
 Connector: Spring-type Euroblock terminal
 Sensor Type: Wet contact (NPN); Dry contact
 Dry Contact: Off: open; On: short to GND
 Wet Contact (DI to COM): On: 10 to 30 VDC; Off: 0 to 3 VDC
 Isolation: 3K VDC
 Digital Outputs
 Connector: Spring-type Euroblock terminal
 Current Rating: 200 mA per channel
 I/O Type: Sink
 Voltage: 24 VDC nominal, open collector to 30 VDC
 Cellular Interface
 Cellular Standards: LTE Cat. 4
 Band Options (US): LTE Band 2 (1900 MHz) / LTE Band 4 (1700 MHz) / LTE Band 5 (850 MHz) / LTE Band 12 (700 MHz) / LTE Band 13 (700 MHz) / LTE Band 14 (700 MHz) / LTE Band 66 (1700 MHz) / LTE Band 71 (600 MHz)
 UMTS/HSPA 850 MHz / 1900 MHz
 Carrier Approval: Verizon, AT&T
 Band Options (EU): LTE Band 1 (2100 MHz) / LTE Band 3 (1800 MHz) / LTE Band 7 (2600 MHz) / LTE Band 8 (900 MHz) / LTE Band 20 (800 MHz)
 UMTS/HSPA 900 MHz / 1800 MHz / 2100 MHz
 Band Option (APAC): LTE Band 1 (2100 MHz) / LTE Band 3 (1800 MHz) / LTE Band 5 (850 MHz) / LTE Band 8 (900 MHz) / LTE Band 28 (700 MHz)
 UMTS/HSPA 850 MHz / 900 MHz / 2100 MHz
 GPS Interface
 Receiver Types: GPS/GLONASS/BeiDou/Galileo/QZSS
 Accuracy: 0.8 m
 Acquisition: -147 dBm
 Sensitivity: Cold starts: -145 dBm; Tracking: -160 dBm
 LED Indicators
 System: Power x 2; User x 1; SIM card indicator x 1
 LAN: 2 per port (10/100/1000 Mbps)
 Wireless Signal Strength: Cellular/Wi-Fi x 6
 Azure IoT Edge
 Versions Supported: v1.4.10
 Authentication Methods: Manual / Connection String; DPS / TPM; DPS / Symmetric Encryption; DPS / X.509 Certificate
 Azure Direct Methods: Reboot; Software Upgrade; Remote API Invocation
 Azure Module Twin: Device Configuration
 Moxa Functions: Custom Payload; Message Group
 Sparkplug B Client
 Versions Supported: v2.2
 Node Commands (NCMD): Next Broker; Reboot; Rebirth
 Moxa Functions: Store and Forward; Custom Payload
 OPC UA Server
 No. of Client Connections: 10
 Security: Sign and encrypt with policies Basic128Rsa15, Basic256, and Basic256Sha256
 User Authentication and Authorization: Username/password
 Supported Profiles: OPC UA v1.02
 No. of Supported Tags: 1024
 Generic MQTT Client
 Versions Supported: v3.1.1; v3.1
 QoS Levels: 0, 1, 2
 Authentication Methods: Username and password
 Secure Transmission: TLS 1.0; TLS 1.1; TLS 1.2
 Native Capabilities: Keep Alive; Retain Message; Clean Session; Will and Testament
 Moxa Functions: Store and Forward; Custom Payload; Remote API Invocation
 Azure IoT Device
 Connection Protocols Supported: MQTT; MQTT over WebSockets; AMQP; AMQP over WebSockets
 Authentication Methods: Symmetric Key; X.509 Certificate
 Azure Direct Methods: Reboot; Software Upgrade; Remote API Invocation
 AWS IoT Core
 QoS Levels: 0, 1
 Authentication Methods: X.509 Certificate; Private Key; Trusted Root
 CAN
 Native Capabilities: Keep Alive
 Moxa Functions: Store and Forward; Custom Payload
 Commands Invokable Via Jobs: Reboot; Software Upgrade; Remote API Invocation
 Modbus RTU/ASCII
 Mode: Master
 Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23
 Max. No. of Commands: 256 per port
 Max. No. of Connected Devices: 62
 Modbus TCP
 Mode: Client (Master)
 Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23
 Max. No. of Server Connections: 64
 Max. No. of Commands: 2048
 Power Parameters
 No. of Power Inputs: Redundant dual inputs
 Input Voltage: 12 to 48 VDC
 Power Connector: 4-pin terminal block
 Power Consumption: AIG-301-AZU-LX/T-AZU-LX: 4.8 W
 AIG-301-CN-AZU-LX/T-CN-AZU-LX: 6.0 W
 All Other Models: 8.4 W
 Input Current: AIG-301-AZU-LX/T-AZU-LX: 0.4 A @ 12 VDC
 AIG-301-CN-AZU-LX/T-CN-AZU-LX: 0.5 A @ 12 VDC
 All Other Models: 0.7 A @ 12 VDC
 Reliability
 Automatic Reboot Trigger: External WDT (watchdog timer)
 Physical Characteristics
 Housing: Metal; SECC
 Installation: DIN-rail mounting; Wall mounting (with optional kit)
 IP Rating: IP30
 Weight: AIG-301-AZU-LX/T-AZU-LX: 560 g (1.23 lb)
 AIG-301-CN-AZU-LX/T-CN-AZU-LX: 745 g (1.64 lb)
 All Other Models: 750 g (1.65 lb)
 Dimensions: AIG-301-AZU-LX/T-AZU-LX: 141.5 x 120 x 27 mm (5.7 x 4.72 x 1.06 in)
 All Other Models: 141.5 x 120 x 39 mm (5.7 x 4.72 x 1.54 in)
 Environmental Limits
 Operating Temperature: Standard Temp. Models: AIG-301-US-AZU-LX, AIG-301-EU-AZU-LX, AIG-301-APAZULX, AIG-301-CN-AZU-LX: -20 to 70°C (-4 to 158°F)
 AIG-301-AZU-LX: -20 to 85°C (-4 to 185°F)
 Wide Temp. Models: AIG-301-T-US-AZU-LX, AIG-301-T-EU-AZU-LX, AIG-301-T-APAZU-LX, AIG-301-T-CN-AZU-LX: -40 to 70°C (-40 to 158°F)
 AIG-301-T-AZU-LX: -40 to 85°C (-40 to 185°F)
 Storage Temperature (package included): -40 to 85°C (-40 to 185°F)
 Ambient Relative Humidity: 5 to 95% (non-condensing)
 Shock: IEC 60068-2-27
 Vibration: 2 Grms @ IEC 60068-2-64, random wave, 5 to 500 Hz, 1 hr per axis (without USB devices attached)
 Standards and Certifications
 EMC: EN 55032/35; EN 61000-6-2/-6-4
 EMI: CISPR 32, FCC Part 15B Class A
 EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
 IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m
 IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
 IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV
 IEC 61000-4-6 CS: 10 VIE
 61000-4-8 PFMF
 Safety: UL 62368-1; EN 62368-1
 Radio: NCC; KC; RCM
 Carrier Approvals: AT&T; Verizon; PTC
 BRE: EN 301 489-1/17/19/52; EN 301 908-1; EN 303 413; EN 303 1908-1; EN 62311
 Green Product: RoHS, CRoHS, WEEE
 Hazardous Locations: Class I Division 2, ATEX
 MTBF: AIG-301-AZU-LX/T-AZU-LX: 794,092 hrs
 AIG-301-US-AZU-LX/T-US-AZU-LX, AIG-301-EU-AZU-LX/T-EU-AZU-LX, AIG-301-AP-AZU-LX/T-AP-AZU-LX: 683,818 hrs
 Standards: Telcordia (Bellcore) Standard TR/SR

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