

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 1.139,29 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
 ComputerCPU: Armv7 Cortex-A7 dual-core 1 GHzDRAM: 2 GB DDR3LStorage Pre-installed: 16 GB eMMCPre-installed OS: Moxa Industrial Linux (Debian 9, Kernel 4.4)No. of Tags Supported: 2048Computer InterfaceTPM: TPM v2.0USB 2.0: USB 2.0 hosts x 1, type-A connectorsWi-Fi Antenna Connector: RP-SMA x 2Cellular 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 1Buttons: Reset button; Reset to factory defaultDigital Input: DIs x 4Digital Output: DOs x 4Number of SIMs: 2SIM Format: Nano (excluding AIG-301-AZU-LX/T-AZU-LX models)Ethernet InterfaceMagnetic Isolation Protection: 1.5 kV (built-in)10/100/1000BaseT(X) Ports (RJ45 connector): 2Ethernet Software FeaturesIndustrial Protocols: Modbus TCP Client (Master); Generic MQTT; Azure IoT Device; AWS IoT Core; Azure IoT Edge; OPC UA Server; Sparkplug B ClientConfiguration Options: Web Console (HTTP/HTTPS); ThingsPro Proxy UtilityTime Management: NTP Server/Client; GPSSerial InterfaceConsole Port: 1 x 4-pin headerNo. of Ports: 2Connector: DB9 maleBaudrate: 300 bps to 921.6 kbpsData Bits: 7, 8Flow Control: ADDC (automatic data direction control) for RS-485, RTS/CTS, XON/XOFFParity: None, Even, Odd, Space, MarkStop Bits: 1, 2Serial SignalsRS-232: Tx, Rx, RTS, CTS, DTR, DSR, DCD, GNDRS-422: Tx+, Tx-, Rx+, Rx-, GNDRS-485-2w: Data+, Data-, GNDRS-485-4w: Tx+, Tx-, Rx+, Rx-, GNDSerial Software FeaturesIndustrial Protocols: Modbus RTU/ASCII MasterCAN InterfaceNo. of Ports: 1Connector: DB9 maleBaudrate: 10 to 1000 kbpsIndustrial Protocols: CAN 2.0A; CAN 2.0BSignals: CAN_H, CAN_L, CAN_GND, CAN_SHLD, CAN_V+, GNDIsolation: 2 kV (built-in)Digital InputsConnector: Spring-type Euroblock terminalSensor Type: Wet contact (NPN); Dry contactDry Contact: Off: open; On: short to GNDWet Contact (DI to COM): On: 10 to 30 VDC; Off: 0 to 3 VDCIsolation: 3k VDCDigital OutputsConnector: Spring-type Euroblock terminalCurrent Rating: 200 mA per channelI/O Type: SinkVoltage: 24 VDC nominal, open collector to 30 VDCCellular InterfaceCellular Standards: LTE Cat. 4Band 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 MHzCarrier Approval: Verizon, AT&TBand 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 MHzBand 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 MHzGPS InterfaceReceiver Types: GPS/GLONASS/BeiDou/Galileo/QZSSAccuracy: 0.8 mAcquisition: -147 dBmSensitivity: Cold starts: -145 dBm; Tracking: -160 dBmLED IndicatorsSystem: Power x 2; User x 1; SIM card indicator x 1LAN: 2 per port (10/100/1000 Mbps)Wireless Signal Strength: Cellular/Wi-Fi x 6Azure IoT EdgeVersions Supported: v1.4.10Authentication Methods: Manual / Connection String; DPS / TPM; DPS / Symmetric Encryption; DPS / X.509 CertificateAzure Direct Methods: Reboot; Software Upgrade; Remote API InvocationAzure Module Twin: Device ConfigurationMoxa Functions: Custom Payload; Message GroupSparkplug B ClientVersions Supported: v2.2Node Commands (NCMD): Next Broker; Reboot; RebirthMoxa Functions: Store and Forward; Custom PayloadOPC UA ServerNo. of Client Connections: 10Security: Sign and encrypt with policies Basic128Rsa15, Basic256, and Basic256Sha256User Authentication and Authorization: Username/passwordSupported Profiles: OPC UA v1.02No. of Supported Tags: 1024Generic MQTT ClientVersions Supported: v3.1.1; v3.1QoS Levels: 0, 1, 2Authentication Methods: Username and passwordSecure Transmission: TLS 1.0; TLS 1.1; TLS 1.2Native Capabilities: Keep Alive; Retain Message; Clean Session; Will and TestamentMoxa Functions: Store and Forward; Custom Payload; Remote API InvocationAzure IoT DeviceConnection Protocols Supported: MQTT; MQTT over WebSockets; AMQP; AMQP over WebSocketsAuthentication Methods: Symmetric Key; X.509 CertificateAzure Direct Methods: Reboot; Software Upgrade; Remote API InvocationAWS IoT CoreQoS Levels: 0, 1Authentication Methods: X.509 Certificate; Private Key; Trusted Root CANative Capabilities: Keep AliveMoxa Functions: Store and Forward; Custom PayloadCommands Invokable Via Jobs: Reboot; Software Upgrade; Remote API InvocationModbus RTU/ASCIIMode: MasterFunctions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23Max. No. of Commands: 256 per portMax. No. of Connected Devices: 62Modbus TCPMode: Client (Master)Functions Supported: 1, 2, 3, 4, 5, 6, 15, 16, 23Max. No. of Server Connections: 64Max. No. of Commands: 2048Power ParametersNo. of Power Inputs: Redundant dual inputsInput Voltage: 12 to 48 VDCPower Connector: 4-pin terminal blockPower Consumption:AIG-301-AZU-LX/T-AZU-LX: 4.8 WAIAG-301-CN-AZU-LX/T-CN-AZU-LX: 6.0 WAll Other Models: 8.4 WInput Current:AIG-301-AZU-LX/T-AZU-LX: 0.4 A @ 12 VDCAIG-301-CN-AZU-LX/T-CN-AZU-LX: 0.5 A @ 12 VDCAAll Other Models: 0.7 A @ 12 VDCReliabilityAutomatic Reboot Trigger: External WDT (watchdog timer)Physical CharacteristicsHousing: Metal; SECCInstallation: DIN-rail mounting; Wall mounting (with optional kit)IP Rating: IP30Weight: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 LimitsOperating 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-TAPAZU-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 60068-2-27Vibration: 2 Grms @ IEC 60068-2-64, random wave, 5 to 500 Hz, 1 hr per axis (without USB devices attached)Standards and CertificationsEMC: EN 55032/35; EN 61000-6-2/-4-EMI: CISPR 32, FCC Part 15B Class AEMS:IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kVIEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/mIEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kVIEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kVIEC 61000-4-6 CS: 10 VIEC 61000-4-8 PFMFSafety: UL 62368-1; EN 62368-1Radio: NCC; KC; RCMCarrier Approvals: AT&T; Verizon; PTCRBRED: EN 301 489-1/17/19/52; EN 301 908-1; EN 303 413; EN 303 108-1; EN 62311Green Product: RoHS, CRoHS, WEEEHazardous Locations: Class I Division 2, ATEXMTBFTIME:AIG-301-AZU-LX/T-AZU-LX: 794,092 hrsAIG-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 hrsStandards: Telcordia (Bellcore) Standard TR/SR

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prices and availability

