

Item no.: 385250

AIG-301-T-EU-AZU-LX - Extended IIoT gateways with 2 connections for Modbus to Azure

from 1.224,11 EUR

Item no.: 385250
shipping weight: 0.60 kg
Manufacturer: MOXA



Product Description

Moxa's advanced IIoT gateways are designed for distributed and unmanned sites in harsh operating environments. The IIoT gateways offer seamless integration with various cloud applications, such as Azure, and enable easy collection and analysis of data from industrial devices. The IIoT gateways are programmable and offer versatile customised solutions that meet the specific requirements of various industrial applications.

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, -40 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 2048Computer 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 SlotsAIG-301-CN-AZU-LX/T-CN-AZU-LX: mPCIe slot x 2All Other Models: mPCIe slot x 1- ButtonsReset buttonReset to factory default- Digital Input DIs x 4Digital Output 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) 2Ethernet Software Features- Industrial ProtocolsModbus TCP Client (Master)Generic MQTTAzure IoT DeviceAWS IoT CoreAzure IoT EdgeOPC UA ServerSparkplug B Client- Configuration OptionsWeb Console (HTTP/HTTPS)ThingsPro Proxy Utility- Time ManagementNTP Server/ClientGPSSerial 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, 2Serial Signals- RS-232 Tx/D, Rx/D, 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-, GNDSerial Software Features- Industrial Protocols Modbus RTU/ASCII MasterCAN Interface- No. of Ports 1 - Conne. of Ports 1- Connector DB9 male- Baudrate 10 to 1000 kbps- Industrial ProtocolsCAN 2.0ACAN 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 TypeWet contact (NPN)Dry contact- Dry ContactOff: openOn: short to GND- Wet Contact (DI to COM)On: 10 to 30 VDCOff: 0 to 3 VDC- Isolation 3K VDCDigital Outputs- Connector Spring-type Euroblock terminal- Current Rating 200 mA per channel- I/O Type Sink- Voltage24 VDCnominal, open collector to 30 VDCCellular 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 MHzCarrier 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 MHzGPS Interface- Receiver Types GPS/GLONASS/BeiDou/Galileo/QZSS- Accuracy 0.8 m- Acquisition -147 dBm- SensitivityCold starts: -145 dBmTracking: -160 dBmLED Indicators- SystemPower x 2User x 1SIM card indicator x 1- LAN 2 per port (10/100/1000 Mbps)- Wireless Signal Strength Cellular/Wi-Fi x 6Azure IoT Edge- Versions Supported v1.4.10- Authentication MethodsManual / Connection StringDPS / TPMDPS / Symmetric EncryptionDPS / X.509 Certificate- Azure Direct MethodsRebootSoftware UpgradeRemote API Invocation- Azure Module Twin Device Configuration- Moxa FunctionsCustom PayloadMessage GroupSparkplug B Client- Versions Supported v2.2- Node Commands (NCMD)Next BrokerRebootRebirth- Moxa FunctionsStore and ForwardCustom PayloadOPC UA Server- No. of Client Connections 10- Security Sign and encrypt with policies Basic128Rsa15, Basic256, and Basic256Sha256- User Authentication and Authorisation Username/password- Supported Profiles OPC UA v1.02- No. of Supported Tags 1024Generic MQTT Client- Versions Supportedv3.1.1v3.1- QoS Levels 0, 1, 2- Authentication Methods Username and password- Secure TransmissionTLS 1.0TLS 1.1TLS 1.2- Native CapabilitiesKeep AliveRetain MessageClean SessionWill and Testament- Moxa FunctionsStore and ForwardCustom PayloadRemote API InvocationAzure IoT Device- Connection Protocols SupportedMQTTMQTT over WebSocketsAMQPAMQP over WebSockets- Authentication MethodsSymmetric KeyX.509 Certificate- Azure Direct MethodsRebootSoftware UpgradeRemote API InvocationAWSIoT Core- QoS Levels 0,1- Authentication MethodsX.509 CertificatePrivate KeyTrusted Root CA- Native Capabilities Keep Alive- Moxa FunctionsStore and ForwardCustom Payload- Commands Invokable Via JobsRebootSoftware UpgradeRemote API InvocationModbus 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 62Modbus 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 2048Power Parameters- No. of Power Inputs Redundant dual inputs- Input Voltage 12 to 48 VDC- Power Connector 4-pin terminal block- Power Consumption 4.8 W- Input Current 0.4 A @ 12 VDCReliability- Automatic Reboot Trigger External WDT (watchdog timer)Physical Characteristics- HousingMetalSECC- InstallationDIN-rail mountingWall mounting (with optional kit)- IP Rating IP30- Weight 560 g (1.23 lb)- Dimensions 141.5 x 120 x 27 mm (5.7 x 4.72 x 1.06 in)Environmental Limits- Operating TemperatureStandard 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 60068-2-27- Vibration 2 Grms @ IEC 60068-2-64, random wave, 5 to 500 Hz, 1 hr per axis (without USB devices attached)Standards and Certifications- EMCEN 55032/35EN 61000-6-2/-6-4- EMI CISPR 32, FCC Part 15B Class A- EMSIEC 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 PFMF- SafetyUL 62368-1EN 62368-1- RadioNCCRCRCM- Carrier ApprovalsAT&TVerizonPTCRB- REDEN 301 489-1/17/19/52EN 301 908-1EN 303 413EN 62311- Green Product RoHS, CRoHS, WEEE- Hazardous Locations Class I Division 2, ATEXMTBF: TimeAIG-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 hrs- Standards Telcordia (Bellcore) Standard TR/SR

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