

MiOT-GW Gateway Series



PRODUCT OVERVIEW

Powered by the latest generation of High-speed ARM CPU, MIOT-GW-010 series can handle IoT gateway & Data concentrator functionality for Smart Street light and smart city applications. Powered by Embedded OS, the MIOTGW-010 series supports direct connection to MS-Azure IoT, AWS IoT Services and also to customer's own hosted servers. MIOT-GW supports TLS 1.2+ encryption for secured cloud connections. Cloud connection can be established via onboard 2G/3G GSM modem and Local monitoring is possible via mobile App using Bluetooth connection in MIOT-GW-010 & via onboard 4G LTE modem, & optional Ethernet or WiFi connection in MIOT-GW-020. Field device or sensor connection can be made using on board digital Inputs and Relay outputs and serial sensors can be connected over RS232 / RS485 ports using MODBUS communication protocol in MIOT-GW-010 and MODBUS, DLMS, IEC60870, MELSEC, S7-TCP & OPC-UA protocols in MIOT-GW-020.

SPECIFICATIONS

MIoT-GW-010

MODEL	MIoT-GW-010-AC0401	MIoT-GW-010-AC0903
Processor	NXP ARM Processor 100MHz	NXP ARM Processor 100MHz
Wireless / Connectivity	Bluetooth 3.0 connectivity for local monitoring 2G GSM Modem with SIM Slot	Bluetooth 3.0 connectivity for local monitoring 2G GSM Modem with SIM Slot
I/O	4 x Digital Inputs 85V-270VAC, 1 x Fast input 5V wet contact 1 x Relay Outputs 30VDC/100-270VAC 2A CPU Temperature & Battery voltage monitoring Door open detect input	9 x Digital Inputs 85V-270VAC, 1 x Fast input 5V wet contact 3 x Relay Outputs 30VDC/100-270VAC 2A CPU Temperature & Battery voltage monitoring Door open detect input
Communication Interface	1 x RS485 port for energy meter connection 1 x RS232 / TTL COM port (Optional) 1 x USB Host (Optional)	1 x RS485 port for energy meter connection 1 x RS232 / TTL COM port (Optional) 1 x USB Host (Optional)
Storage	1 x uSD Card Slot	1 x uSD Card Slot
UPS	8 Hours battery backup with 7.2V/2200mAH Li-Ion Cells	8 Hours battery backup with 7.2V/2200mAH Li-Ion Cells
Power Input	Input Supply : 24VDC +/- 10%	Input Supply : 24VDC +/- 10%
Operating Temperature	0-60 Deg C	0-60 Deg C
Enclosure / Protection	Wall mount IP30 enclosure	Wall mount IP30 enclosure
Software Features	RTOS TLS 1.2+ encrypted cloud communication Over the air firmware update	RTOS TLS 1.2+ encrypted cloud communication Over the air firmware update
Communication Drivers	Master/Client drivers : Modbus	Master/Client drivers : Modbus
Cloud Service Compatibility	MS-Azure IoT Hub, AWS IoT Hosted servers, Dedicated own servers	MS-Azure IoT Hub, AWS IoT Hosted servers, Dedicated own servers
Cloud Protocols	HTTPS	HTTPS

MIoT-GW-020

MODEL	MIoT-GW-020-AC1004
PROCESSOR	ARM Cortex 800Mhz / 1GHz Processor
WIRELESS / CONNECTIVITY	Bluetooth 3.0 connectivity for local monitoring 4G GSM Modem with SIM Slot WiFi 802.11 a/b/g/n (Optional) RF Modem for pole to pole lamp communication (Optional)
I/O	10 x Digital Inputs 85V-270VAC, 1 x Fast input 5V wet contact 4 x Relay Outputs 30VDC/100-270VAC 2A CPU Temperature & Battery voltage monitoring Door open detect input
COMMUNICATION INTERFACE	1 x RS485 port for energy meter connection 1 x RS232 / TTL COM port 1 x USB Host 1 x 10/100Mbps LAN port for integration in IP network
STORAGE	1 x uSD Card Slot
UPS	8 Hours battery backup with 7.2V/2200mAH Li-Ion Cells
POWER INPUT	Input Supply : 24VDC +/- 10%
OPERATING TEMPERATURE	0-60 Deg C
ENCLOSURE / PROTECTION	Wall mount IP30 enclosure
SOFTWARE FEATURES	Embedded Linux TLS 1.2+ encrypted cloud communication Over the air firmware update
COMMUNICATION DRIVERS	Master/Client drivers : Modbus (Default) Options : DLMS, IEC60870, OPC-UA, SIMATIC S7, MELSEC
CLOUD SERVICE COMPATIBILITY	MS-Azure IoT Hub, AWS IoT, PTC Thingworks, Hosted servers, Dedicated own servers
CLOUD PROTOCOLS	HTTPS, AMQP, MQTT, PTC Always ON, OPC-UA