

# 4GW-E

## ALITER IOT GATEWAY

In order to make the shift to Industry 4.0, the three 'M's of manufacturing; Man (Humans), Machines, and Material must possess the ability to store data, apply intelligence to it and take action. Currently, only humans possess all these three abilities.

With the rapid advancements in the internet and the technologies surrounding it, it is now possible to maintain real-time communication with the machines and create a virtual machine mind (digital twin) on the cloud.

The 21st century is currently experiencing the fourth industrial revolution where industries and businesses are being transformed into cyber-physical systems. The prerequisite for the transformation is digitalization.

Data exists either in Digital or Analog form and are exchanged between machines using communication protocols. It is the duty of the IoT Gateway to convert protocols and send them to the cloud to store data, apply intelligence and take action on it.



## COMPACT AND EASY TO USE

Completely Remote Configurable

## MODBUS ENABLED

RTU, ASCII,  
TCP(Master/Slave)

## CONNECTIVITY

4G(LTE Cat 1), 3G, 2G  
Ethernet(IEEE 802.3)  
WiFi(2.4GHz)



# APPLICATION

# PLC & HMI  
# WEIGHING SCALE  
# FLOW-METERS

# ENERGY-METERS  
# PRINTERS  
# TEMP-MONITORING

# MOULDING MACHINES  
# ANDON LIGHT SYSTEM  
# PICK TO LIGHT SYSTEM

# CNC MACHINE  
# VFD

# SIDE VIEW



# KEY FEATURES

## HARDWARE

Mobile	4G (LTE) Cat 1 up to 10Mbps, 3G, 2G
Wifi	2.4 Ghz (802.11 b/g/n )
Ethernet	1 x RJ45 port, Full Duplex 100 Mbps
CPU	Xtensa dual-core 32-bit LX6 microprocessor
Flash storage	4 MB for Data Backup/SD Card (Optional Space of 500 MB available)
Powering	12 – 24 VDC/1A
SIM	1 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V
Status LEDs	Power Status, CPU Status and Network/Cloud Connection
Inputs / Output	2 x Configurable Input, Default: Digital Input (Active Low) ADC(0-24Vdc) ...Factory Setting Required 4-20mA...Factory Setting Required 1 x Open Contact Digital Output ( SPDT Relay, 2.5A/12VDC, 1A/250VAC )
Operating temperature	-40 °C to 75 °C
Dimensions	154 x 100 x 64 mm
Installation	DIN rail, Wall mounting, Ready to use kit

## SOFTWARE

Network protocols	TCP, IPv4, NTP, DNS, HTTP, HTTPS, SSL v3, TLS, DHCP, MQTT, MQTTS
Network feature	Connection monitoring, Data Backup on Network loss ( Inbuilt RTC ), Bulk Data posting on network restoration
Monitoring and Management	WEB UI, FOTA, MQTT, Gateway Health monitoring, Network Performance Analysis, Easy addition of Modbus Query, Modbus Data Format Analyzer
Connection monitoring	Manual Reboot, Periodic Reboot, Device Live Status Monitoring, Software Watchdog
Cloud solutions	Evolve IoT Platform, Azure IoT Hub, AWS IoT Core, Thingsboard, etc compatible with any IoT cloud platform