



Description

The U1 is a universal IoT gateway to connect industrial sensors and actuators to a computer server on cloud or on premise. This helps achieve remote monitoring and control of industrial machines and processes.

The gateway features interfaces like MODBUS over Ethernet and RS485, analog inputs - 4 to 20mA, RS232 and SDI-12.

It offers connectivity options like 4G(LTE) with fallback 2G, WiFi and Ethernet. The gateway adapts to protocols such as MQTT, HTTP, TCP & CoAP/UDP.

Model	Interfaces	Connectivity
U1-14100-4G	RS485 x 1, 4-20mA x 4, Ethernet x 1, SDI x 0, RS232 x 0	Wi-Fi & 4G + 2G
U1-22100-4G	RS485 x 2, 4-20mA x 2, Ethernet x 1, SDI x 0, RS232 x 0	Wi-Fi & 4G + 2G
U1-12010-4G	RS485 x 1, 4-20mA x 2, Ethernet x 0, SDI x 1, RS232 x 0	Wi-Fi & 4G + 2G
U1-14101-4G	RS485 x 1, 4-20mA x 4, Ethernet x 1, SDI x 0, RS232 x 1	Wi-Fi & 4G + 2G

U1 – IoT Gateway

Seamless Connectivity

Technical Specifications

Processor	: 32 Bit, 80 MHz ARM
Memory	: 16 MB Flash / 300 KB SRAM
Storage	: 4 MB
Timekeeping	: RTC with NTP Synchronisation
Connectivity	: WiFi + 4G with Fallback 2G + Ethernet
Interfaces	: RS485, 4-20mA, SDI-12, RS232
Protocols	: MQTT(S), HTTP(S) & TCP/IP.
Antenna	: Rubber Duck 3 dBi
Power	: 24-30V DC
Configurable	: Ping Intervals, Log Intervals & Server End Points.
Datalogging	: Online & Offline.
Mounting	: DIN Rail / Wall Mount.
Protection	: IP20 / IP65.
Temperature	: 10 to 60 Deg Cel.
Certifications	: CISPR 32, IEC61000-4-2, IEC61000-4-11.

