

Maple Edge-II • Controller • Gateway • Aggregator

KEEP YOUR CRITICAL OPERATIONS RUNNING EFFICIENTLY

Maple Edge-II Capabilities

Maple Edge-II is the 2nd iteration of PLC's successful Maple Edge IoT and Communication Gateway series with enhanced features and variable port and Backhaul options while offering Edge Level Intelligence. Its application is in different market segments like MNOs, Equipment OEMs, ESCOs, TowerCos, Data Centers, Cable Landing Stations Solar Generation, Smart Cities, Energy Storage, and EV Charging Infrastructure.

Maple Edge-II offers seamless integration with different network elements (DC Plants, Batteries, HVAC's, Generator, ATS, Energy Meters) using standard protocols (SNMP, Modbus, CAN, UDP etc.). Its small size and multiple mounting options make it flexible for IoT applications requiring real-time monitoring and control. Multiple models are available with Display and Multi-ports IP options.

PLC Group's Remote Monitoring and Control Hardware Portfolio

PLC Group offers an extensive portfolio of fixed and modular controllers, IoT gateways, and sensors for remote visibility and control of critical infrastructure elements. PLC Group's range of products includes various gateways and controllers with diverse combinations of IP ports, mounting types, displays, edge computing capabilities, and other features.

PLC Group's products are vendor-neutral and seamlessly integrate with existing infrastructure elements such as DC plant batteries, generators, HVAC systems, tower lights, and more. With this integration, users can monitor and control these elements over 4G/3G Wi-Fi, Ethernet, and using protocols such as Modbus, CAN bus, UDP and SNMP.



Maple Edge-II Features

Processing & Memory

Processor	ARM Cortex-A72 clocked
Processing Speed	1.8 GHz
RAM	Default 4GB and options for 8GB, 16GB LPDDR4-3200 SDRAM
Storage Space	8GB, 16GB (by default) or 32GB eMMC Flash memory
Operating System	Linux Distribution: Debian (Version: Buster)
Storage	Flash

Power Requirements

Input Voltage	<ul style="list-style-type: none">■ 7 to 36 VDC■ 90 - 240VAC (Optional) to 7 - 36VDC Input Available (Requires AC Power adapter)
Nominal Power Consumption	10 W
Fuse/Breaker Rating	5 Amp
Operating Temperature	-20°C to 55°C

Interfaces & Ports

RS-232 Ports	Converter Required
RS-485 Ports	2
CAN Ports	1
USB Interfaces	4 (3 x USB 2.0, 1 x USB-C)
RJ45 IP Ports	1 x 10/100/1000M IP/Ethernet Port

Networking and Connectivity

Communication Protocols	SNMP v1, v2c, v3, Modbus RTU/TCP, TCP/UDP, SMTP, HTTP/HTTPS, MQTT, NTP, Telnet, ICMP, SSH, DHCP, DNS
Single SIM LTE Modem (2G, 3G, 4G)	Yes {Optional}
WiFi	Wi-Fi (IEEE 802.11 b/g/n) (optional)
Wi-Fi Hotspot	Optional

Software Features

Security Features Password, SSL, SNMP v3, Radius, VPN

Remote Software Upgrades Yes

Remote VPN Access

- Wire Guard
- VPN

Cloud Integration Yes

Physical Features

Enclosure PVC Plastic Body

Mounting Wall and DIN Rail Mount

Shipping Weight 250 g/0.5 lb

Dimensions (HxWxD) mm / in (90 x 145 x 40) mm / (3.5 x 5.7 x 1.5) in

HMI (Human Machine Interface) Optional

Unit LEDs

1. Status Indicator:
 - Red Light (PWR): Controller Power Indicator
 - Green Light (ACT): Controller Working Status Indicator
2. 4G/5G Module Status Indicator:
 - Red light (STA): Module Enable Indicator
 - Green light (NET): Module Running Status Indicator

Hardware Control Examples

Add on Sensors Supports Only RS485 Sensors

Maple Edge-II Physical Dimensions

