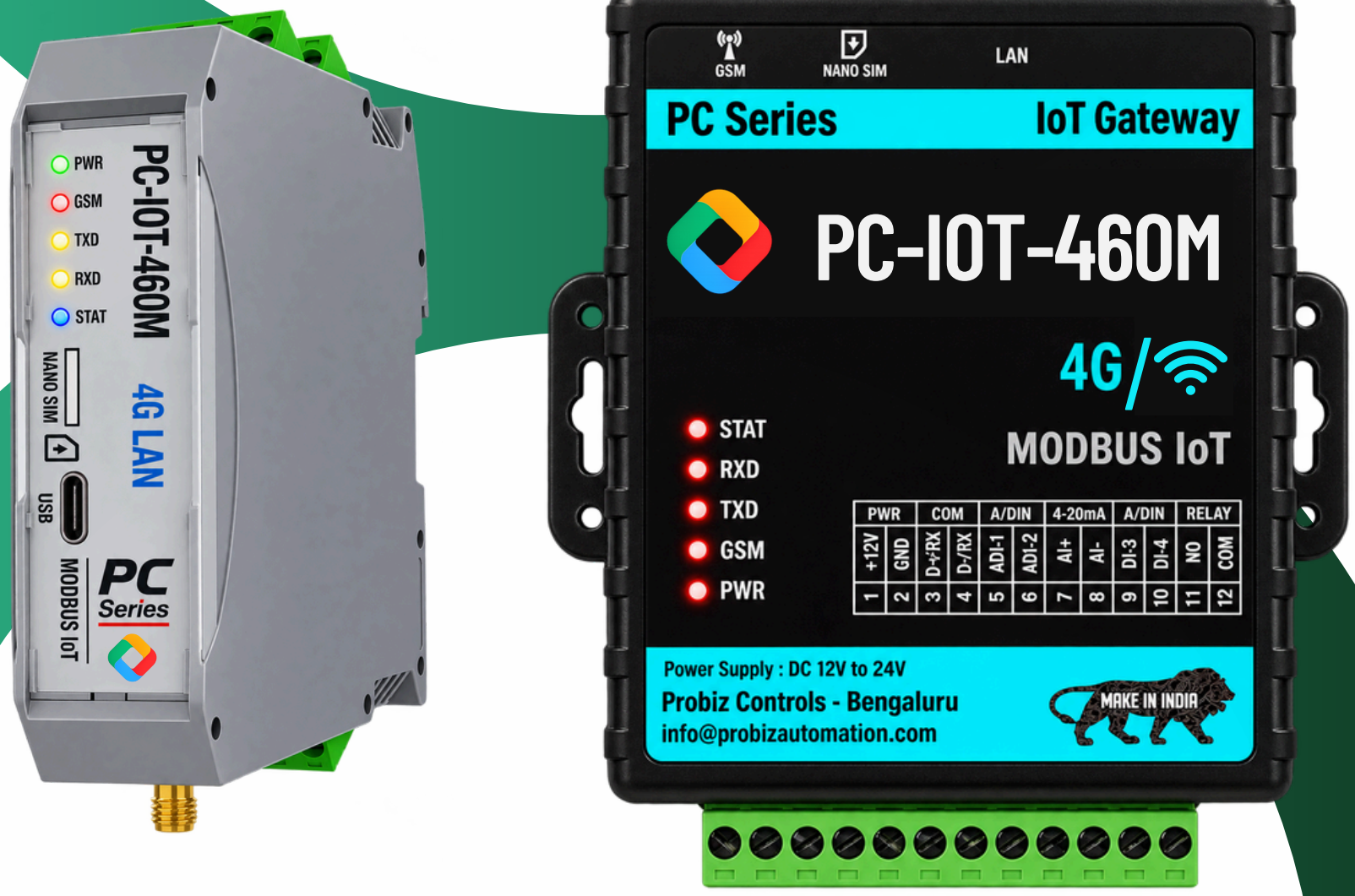
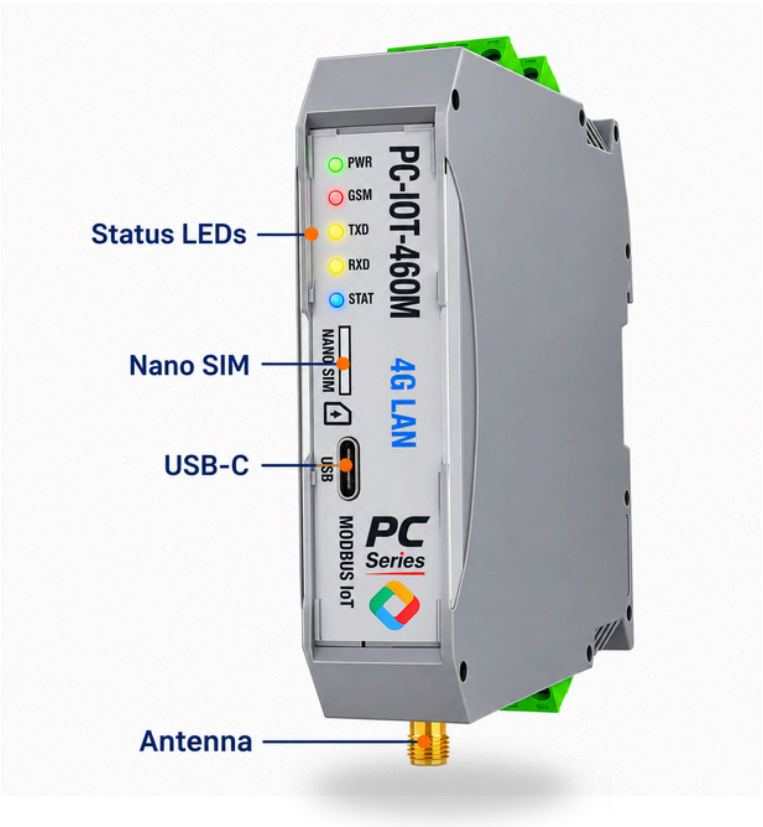
Probiz Controls

PC Series · 4G + WiFi gateway

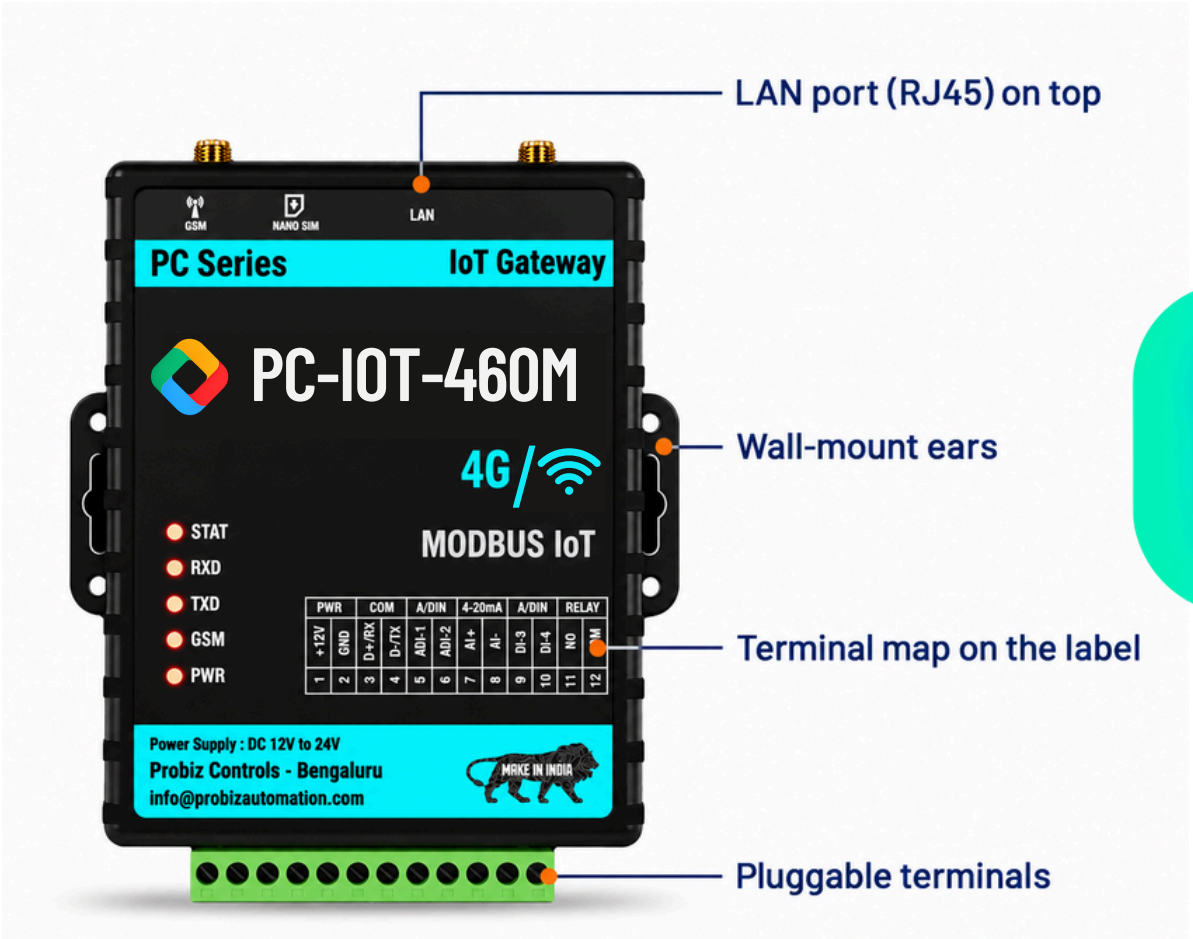
PC-IOT-460M



PC-460 PC Series · 4G + WiFi gateway



PC-460DM · DIN-rail housing



PC-460FM · Wall mount- housing

2 networks	**2** servers at once	**64** Modbus devices	**3,000** registers read	**17,500** logs per server	**6** on-board I/O

Where it works

Smart meter reading	Power monitoring	PLCs and automation	Pump and flow monitoring
Water and remote telemetry	Solar, wind and SCADA	Temperature and alarms	Factories and buildings

Ethernet and 4G in one gateway. It reads Modbus meters, PLCs and sensors, delivers to two servers at once, switches networks when one fails and keeps every reading through outages.

What it does

Two networks, automatic failover
Ethernet and 4G LTE; switches when one goes down.

Two servers, any mix
TCP, HTTP or MQTT per server, JSON or CSV each.

Secured with TLS
On the primary server link, 4G or Ethernet.

Keeps data through outages
Logs are stored and sent in order once back online.

Reads and writes Modbus
RS-485 and Modbus TCP; scheduled, event or offline.

Transparent for SCADA
Raw frames from SCADA reach the RS-485 slaves.

On-board inputs and relay
4 inputs, a 4–20 mA input and a relay with triggers.

Configured from anywhere
SMS, server commands or USB-C; firmware over the air.

Termials

DIN RAIL PC-IOT-460DM
DIN-rail mounting

POWER		SERIAL		4G LTE		INPUTS		RELAY		INPUTS	
+12–24V	GND	D+RX	D-TX	N–	N+	ADI-1	ADI-2	NO	COM	DI-3	DI-4
1	2	3	4	5	6	7	8	9	10	11	12

WALL PC-IOT-460FM
Wall-mount mounting

POWER		SERIAL		INPUTS		4–20 mA		INPUTS		RELAY	
+12–24V	GND	D+RX	D-TX	ADI-1	DI-3	I+	I–	DI-4	DI-C	NO	COM
1	2	3	4	5	6	7	8	9	10	11	12

All I/O and 4–20 mA are with isolations to GND. The two housing numbers are identical in wiring, with different mechanics.



One gateway, two housings

A row across both columns is the same on both housings; a split row shows where they differ.

	DIN Rail PC-IOT-460DM	WALL PC-IOT-460FM
CELLULAR		
Network	4G LTE with 2G fallback · nano SIM inside (1.8 V / 3 V) · external antenna	
Bands, Asia	LTE-FDD B1/B3/B5/B8 · LTE-TDD B34/B38/B39/B40/B41 · GSM B3/B8	
Bands, Europe (_EU)	LTE-FDD B1/B3/B5/B7/B8/B20/B28 · LTE-TDD B38/B40/B41 · GSM B2/B3/B5/B8	
ETHERNET		
Port	RJ45, 10/100 Mbps · static IP or DHCP	
Failover	Ethernet or 4G as the priority; switches when it fails and goes back when it returns	
SERVERS AND DATA		
Servers	Two at once, each with its own protocol, packet format and security	
Protocols	TCP client, HTTP client (GET or POST) or MQTT, chosen per server	
Packet formats	JSON (standard, plain or custom), CSV (standard or custom), ThingsBoard or ThingSpeak	
Security	TLS, server or two-way certificates · on the primary server link	
Second server	Polled data, or transparent Modbus: raw frames from SCADA to the RS-485 slaves	
Data logger	Up to 17,500 logs per server, 64 MB + 64 MB · sent in order once the link returns	
Time	Clock set from NTP, HTTP or the mobile network · standard, ISO 8601 or Unix time stamps	
MODBUS		
Serial port	RS-485 / RS-232 · 2,400 to 115,200 bps · 8 bits · parity none, even or odd · 1 or 2 stop bits	
Field devices	Up to 64 on RS-485 and Modbus TCP over the LAN together · 3,000 registers read	
Polling	Scheduled, event-driven and offline	
Writes from the server	Raw Modbus frames (transparent) or JSON commands	
Modbus slave	A local SCADA or HMI can read the gateway over TCP or RS-485	
INPUTS AND OUTPUTS		
Configurable inputs	2 × 0–24 V: analog or digital (ADI-1, ADI-2)	
Digital inputs	2 × 0–24 V: digital or pulse (DI-3, DI-4)	
Current input, relay	1 × 4–20 mA input · 1 × relay output, NO / COM	
Also read	Supply voltage and board temperature	
Edge triggers	Relay or Modbus write	
SERVICE, POWER AND HOUSING		
Configuration	PC program over USB-C · SMS · server commands · firmware updates over the air	
Monitoring	SMS or server alerts · packet console on the PC · LEDs PWR, GSM, TXD, RXD, STAT	
Supply, terminals	12–24 V DC, reverse-polarity protected · 12 pluggable terminals	
Housing	DIN rail	Wall mount, with screw ears

PROBIZ CONTROLS

PC Series · 4G + WiFi gateway

PC-IOT-460M



Probiz Controls by Probiz Automation

Bengaluru · Coimbatore · Chennai — India

Muscat — Oman

+91 99161 99499 · info@probizautomation.com

www.probizautomation.com