



TG-225 Industrial Gateway

DataSheet



Supports 4G/5G



Flexible Interface Options



Extensive Protocol Support



Wireless Connection



Programming Supported

The TG-225 Intelligent Edge Computing Gateway is an industrial-grade gateway device launched by Tespro. It features high bandwidth, low latency and high reliability, supporting 2G, 3G, 4G and 5G networks to provide wireless network connectivity for IoT devices. Equipped with rich upstream and downstream interfaces, the TG-225 includes 2 ports of 100M/1000M Ethernet, 2 RS485 interfaces, 1 RS232 serial port, and 4 channels of GPIO input and output, meeting the device connection needs of different IoT scenarios. The operating system of the TG-225 Gateway is developed based on OpenWrt/LEDE, supporting programming languages such as C/C++, Lua, Go and Python. Users can independently develop relevant applications on the system.

Application Scenario



Industrial Internet



Power Monitoring



Environmental Monitoring

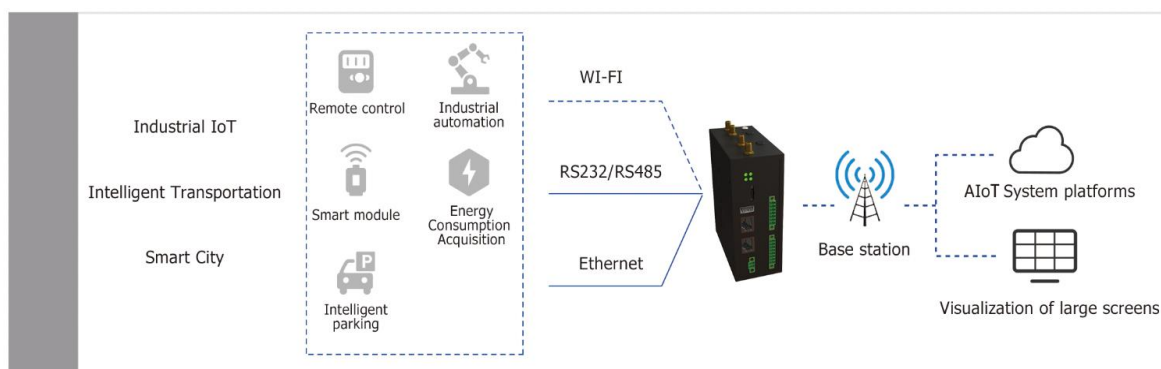


Robot



Smart City

It is widelyused in electric power, industrial communications, industrial control, environmental monitoring, water conservancy, transportation, municipal administration, smart home, self-service terminals, robotics and other industries.



Technical Specifications

Category	Parameter Name	Parameter Description
Basic Information	Power Supply	DC: 12-36VDC
	Indicator Lights	Power/Network/Communication
	Region/Carrier	Global
	Reference Dimensions	125mm108mm50mm
Frequency Band Information	LTE-FDD	B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28
	LTE-TDD	B38/39/40/41
	WCDMA	B1/2/4/5/6/8/19
	GSM/EDGE	B2/B3/5/8
	GNSS	GPS, GLONASS, BDS, Galileo, QZSS (Optional)
Data Information	LTE-FDD	Maximum 10 Mbps (dl) / 5 Mbps (ul)

	LTE-TDD	Maximum 8.96 Mbps (dl) / 3.1 Mbps (ul)
	WCDMA	Maximum 384 kbps (dl) / Maximum 384 kbps (ul)
	EDGE	Maximum 296 kbps (dl) / Maximum 236.8 kbps (ul)
	GPRS	Maximum 107 kbps (dl) / Maximum 85.6 kbps (ul)
Output Power	LTE-FDD/TDD	Class 3 (23 dBm ±2 dB)
	WCDMA	Class 3 (24 dBm +1/-3 dB)
	GSM850	Class 4 (33 dBm ±2 dB)
Serial Port Parameters	Number of Serial Ports	1*RS232 Port, 2*RS485 Port
	Serial Port Pins	RS232-Terminal (V/TX/RX/GND), RS232-DB9 (2-RX/3-TX/5-GND); RS485-Terminal (A/B/G)
	Baud Rate	300-115200 bps
	WIFI Antennas	2*Bluetooth Antennas, SMA Male Connector (Outer Thread, Inner Hole)
	4G Antennas	2*4G Antennas, SMA Male Connector (Outer Thread, Inner Hole)
	Buttons	Reset
	2P Socket	Power Socket
	7P Socket	2*RS485, 1*RS232
	8P Socket	2*DI,2*DO
	TF Card	Micro SD Card
	USB	USB3.0
	Network Interface	4G LTE+4*LAN 100Mbps
Functions	Collection Methods	Real-time Collection/Reporting, Interval Collection/Timed Reporting, Customized
	Electric Meter Protocols	DL/T 645-2007, IEC 62056-21, IEC 1107, IEC 61850, DLMS
	Industrial Protocols	MODBUS RTU, MODBUS TCP, BACnet, M-bus, OPC UA
	Serial Port Protocols	Transparent Transmission, TCP Client/Server, UDP, Modbus RTU Gateway
	Network Protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, DNS, NTP, SMTP, Telnet, VLAN, HTTPS, ARP, SSH2, DDNS, etc.
Temperature & Humidity Range	Operating Temp & Humidity	-40~ +75 °C; 10%~95% RH

	Storage Temperature	-20 ~ +80 °C
Reliability	Safety Protection Functions	Reverse Polarity Protection Overvoltage & Overcurrent Protection Lightning Protection Surge Protection



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