



TOP-4GM

Compact GSM /WCDMA/LTE-TDD and LTE-FDD IP gateways

Features

- Multi-band LTE-TDD/LTE-FDD/HSPA+ and GSM/GPRS/EDGE
- Dual-band UMTS/HSDPA 900/1800 MHz
- Ethernet, serial, and cellular communication
- Centralize private IP management software with Software
- Modbus/TCP-UDP-ASCII-RTU Protocol for SCADA Software
- Support Modbus Master Protocol
- DNP3/TCP-UDP-Serial Protocol for SCADA Software
- Support DNP3 Master Protocol
- Support At Command Protocols(GSM-GPRS Modem)

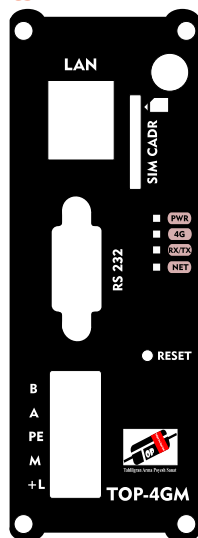
Introduction

The 4GM-HSPA are cellular IP gateways that can conveniently and transparently connect your existing Ethernet and serial devices to a 4G cellular network. With TOPS's industrial design, higher EMS level are tested to ensure the highest reliability for any harsh environment. The 4GM-HSPA cellular IP gateways are the most compact, simple and robust industrial 3G solution.

System Specifications

System		LED Indicators	
CPU	ARM 32-bit RISC CPU	PWR	PWR (Red)
SRAM	128KB	RX/TX	RUN (Yellow)
Flash Memory	Internal	4G	(Green)
	External	NET	(Red)
Watchdog	Yes	10/100	Ethernet 10/100 M Speed(Green)
Communication		Red	Ethernet Link/Act(Blue)
Ethernet Port	10/100 Base-TX and automatic MDI/MDI-X	Power Requirements	
Cellular Antenna	1,SMA(female)	Reverse Polarity Protection	Yes
Serial Port	RS232	Powered	10 ~ 30 V _{DC}
		Consumption	2W
Cellular Interface		Mechanical	
Standards	LTE-TDD/LTE-FDD/HSPA+	Dimensions (W x L x D)	112 mm x 40 mm x 88 mm
Band Option	Multi-band GSM/GPRS/EDGE 900/1800 MHz	Installation	Wall mounting
		Environment	
		LTE-TDD B38/B40/B41	Operating Temperature
	FDD-LTE B1/B3/B5/B7/B8/B20	Storage Temperature	-10 °C ~ +70 °C
HSPA+ Data Rate	Max. 5.76Mbps(UL) , 42Mbps(DL)	Humidity	10 ~ 90% RH, non-condensing
GPRS Data Rate	85.6Kbps(DL/UL)		
LTE cat1 Data Rate	5Mbps(UL) , 10Mbps(DL)		
GPRS Multi-Slot Class	Class 12		

Pin Assignments



Power & Communication		
Power Supply	L+	DC +24v
	M	DC GND
	PE	Earth
RS485	A	+DATA
	B	-DATA
RS232	2	RXD
	3	TXD
	5	GND
	7	RTS
	8	CTS
LAN	Ethernet 10/100	

TOP-4GM(GSM/GPRS Wireless modem)