Outdoor Micro Getway



Features

- Compliance to LoRaWAN 1.0.2
- Up to 16 concurrent channels for LoRa transmission
- 3G/4G backhaul supported
- Option support wide frequency range from 470MHz to 928MHz
- Long range over 15 kilometers radius
- 1 LAN port (10/100Mbps) with PoE
- Downlink LBT
- Cloud service to support easy deployment
- Patented repeater mode for last mile coverage
- Thousands to millions devices depending on data model
- Cost effective for providing full redundancy coverage
- IP67 waterproof

Accutherm has been instrumental in the development of LPWAN system solutions, and is an early provider of LoRaWAN protocol-based, end-to-end LPWAN solutions. The LoRaWAN technology is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost effective way for service providers to deploy LoRaWAN network for sensor applications in vertical market domain.

The micro LSNG-16O is specifically designed for wide area smart city applications. Applications include, but not limited to automatic meter reading, monitoring fault indicators, monitoring street lights, etc. Typical deployment is using star network configuration similar to mobile network base station. This product can be configured as last mile repeater to solve sensor connectivity issue when sensor is located at edge of the coverage or out of coverage. It's a cost effective way to provide full redundancy coverage for the entire service area

Specification						
Model Name	WAPS-232N					
Frequency Band	EU 862~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz /					
	CN 470~510MHz / AU915~928 MHz					
Number of Channels	Up to 16 Channels					
WAN Protocol	LoRAWAN					
Modulation	Based on LoRaWAN					
RF Transceiver	SX1301 with SX1257 or SX1255 for CN-470 SKU					
Transmit RF Power	0.5W (up to 27 dBm)					
Receive Sensitivity	Down to -142 dBm					
Operating Temperature	-40°C ~ 60°C					
Storage Temperature	-40°C ~ 60°C					
Power Voltage	55VDC/0.6A via PoE adapter					



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Antenna Type	External N-Type antenna
Ingress Protection	IP67
Interfaces1	1 LAN port, 2 LoRa antenna connectors, 1 GPS antenna connector,
	One (1) 3G/4G antenna (option)
Dimensions	L:230 x W:200 x H:68 mm
Weight	2.05 kg
Security	AES 128

SKU Detail								
SKU	Country	Channels	Frequency Band (MHz)	3G/4G Support	3G/4G Module			
AU-16	Australia	16	AU920 (915~928)	N	N			
AU-16-	M Australia	16	AU920 (915~928)	Υ	EC25-AU			
AU-8	Australia	8	AU920 (915~928)	N	N			
AU-8-M	Australia	8	AU920 (915~928)	Υ	EC25-AU			
CN-470-16	China	16	CN470 (470~510)	N	N			
CN-470-16-M	China	16	CN470 (470~510)	Υ	EC20-CE			
EU-8-M	Europe	8	EU868 (862~870)	Υ	EC25-E			
JP-16	Japan	16	920~928	N	N			
JP-16-M	Japan	16	920~928	Υ	EC25-J			
MY-16	Malaysia	16	919~923	N	N			
MY-16-	M Malaysia	16	919~923	Υ	N			
TW-16	Taiwan	16	920~925	N	EC25-AU			
TW-16-M	Taiwan	16	920~925	Υ	N			
US-16	USA	16	US915 (902~928)	N	EC25-AU			
US-16-M	USA	16	US915 (902~928)	Υ	N			

^{*} Sample available for India 865~867 MHz

3G/4G Band Support									
	EC25-E	EC25-J	EC25-A	EC25-A U	3G/EC20-CE				
Country	Europe Taiwan Malaysia	Japan	USA	Australia	China				
LTE FDD	B1/B3/B5/B7/B8/ B20	B1/B3/B5/B8/B18/ B19/B26	B2/B4/B12	B1/B2/B3/B4 B5/B7/B8/B28	B1/B3/B8				
LTE TDD	B28/B40/B41	B41	X	B40	B38/B39/B40/B41				
WCDMA	B1/B5/B8	B1/B6/B8/B19	B2/B4/B5	B1/B2/B5/B8	B1/B8				
GSM	B3/B8	X	Χ	B2/B3/B5/B8	900/1800				
TDSCDMA	X	X	Χ	X	B34/B39				
CDMA 1x/EVDO	X	X	Х	Х	BC0				

