

# NLG8520

The NLG8520 by Nebulae is a cutting-edge Wi-SUN gateway that provides secured interconnection of Wi-SUN field devices with WAN communication networks. Its capabilities include Wi-SUN FAN 1.0 Support, remote device management, communication management, data storage, and interface abstraction. Having choice of multiple WAN interfaces and mounting options makes it suitable for different deployment strategies and locations. Ideal for small to medium mesh network supporting up to 250 nodes on single network for various IoT applications.



## Specifications

Processor Specification	
Processor	A5D2X @500MHz Cortex - A5
Storage	64 MB Internal RAM, 32 MB Internal Flash, Up to 32 GB microSD Card
Communication Interface	
Serial	1 x RS 485
Ethernet	1 x IEEE 802.3 10/100M/1Gbps
Cellular	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28/B66 LTE-TDD : B34/B38/B39/B40/B41 GSM/GPRS/EDGE: 850/900/1800/1900 MHz
Operating Frequency	IN 865 - 867 MHz
Conductive Power	20 dBm
Receiver Sensitivity	-101 dBm @100kbps, 2GFSK
RF	Support IEEE 802.15.4 Support Mesh Topology
Software Specification	
Stack	Yocto Linux(sumo)
Management	Support RF self healing & self forming network Support secure firmware update Support NTP
Electrical Specification	
Power Supply	85 ~ 264V AC
Battery	4H battery backup after power failure
Operating Temperature	-10°C to 60°C
Humidity	Relative humidity 15% to 93% non condensing
Safety	EMS Protection, ESD (IEC 61000-4-2), EFT (IEC 61000-4-4), Fire retardant, Surge (IEC 61000-4-5), Radiated Emission (CISPR22), IP65, Test of immunity to electromagnetic HF field (IEC61000-4-3)
Hardware Specification	
Anti tempered feature	Yes
LEDs	3 x Status LEDs
Dimension	250 X 210 X 105 mm
Antenna	1 x Cellular, 1 x RF (Fiber Glass with 5 dBi gain)
Mounting Style	Wall Mount and Pole Mount

## Applications



Smart  
Metering



Smart Cities



Smart Factory



Data Centers/  
Server Rooms

## Key Product Features

- Open source embedded Linux system
- IP65, Fire retardant rated case
- 250 Nodes connected in one DCU
- Tempered protection
- Long range wireless data transmission
- External fibre glass antenna with 5 dBi gain For long Range
- Supports upto 100Mbps Ethernet speed
- Support DCU battery backup

## Contact us: System Level Solutions

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