

SOLAR POWERED WIFI POLE

Connect to the internet anywhere.



FEATURES

- Fully autonomous, WIFI pole
- Weather and windproof construction for long-term durability
- Easy to install and minimum maintenance

APPLICATIONS

- Municipalities and Towns
- Schools
- Hospitals
- Parks
- Amusement parks
- Industrial areas

OPTIONS

- USB Charging ports – No fear of falling out of battery with the 24W charging ports
- REMOTE MONITORING – Keep an eye on the pole's functioning while on service and stay aware of any change or malfunction

CUSTOMIZATION

- Agamine Solar's WIFI Pole can be tailored to meet your specific needs in terms of height and colour.

TECHNICAL SPECIFICATIONS

General information	
Pole Height	6.5 m (other sizes optional)
Diameter	170 mm
Number of Days of Autonomy	> 3 days (luminous efficacy automatically reduced)
ROUTER	
Dimensions (mm)	185 x 85 x 30 mm
CPU	QCA9531 650 MHz
Wireless	Built-in 2.4 GHz 802.11b/g/n, dual-chain
Wireless regulations	Specific frequency range will be limited by country regulations
Wireless antenna max gain	2 dBi
LTE antenna max gain	4 dBi (with uFL connector)
Antenna beam width	360°
LTE category	4 (150Mbps Downlink, 50Mbps Uplink)
3G category	R7 (21Mbps Downlinks, 5.76Mbps Uplink) R8 (Cat24 - 42.2Mbps Downlink) R7 (Cat14 - 21.1Mbps Downlink) -
2G category	Class12
Operating System	RouterOS, License level 4
RAM size	64 MB
PoE in input Voltage	9 V - 30 V (Passive PoE)
Number of SIM slots	1
Max power consumption	8W
Tested ambient temperature	-40°C to +60°C
10/100 Ethernet ports	1
Remote-monitoring (Optional)	
PCB temperature monitor	Yes
Voltage Monitor	Yes
Charging USB (Optional)	
Type	Universal fit for any USB Type-A connector
Charge	up to (2) devices at a time
Output Voltage	5 Volt +/- 5%
Total output current	3.1A total or 2.1A from a single socket
IP	X6
Solar Cells	
Type	Monocrystalline silicon, efficiency > 24%
Quantity	1 PV - 64 cells
Pole	
Material	Steel hot-dip galvanized with powder coating
Wind Load	46 m/s (130 km/h)
Warranty	20 years anti-corrosion C5m
Battery	
Type	Lithium LiFePO4, High temperature (65°C)
Lifetime	7,000 cycles; ~ 19 years
Warranty	3 years (5 or 10 years optional)
Position	Batteries in the pole
Grid Connection (Optional)	
Hybrid Mode	Grid charging if insufficient energy from sun
Charge Controller Input	110 V / 220 V; 47 Hz – 63 Hz; 95% Efficiency
Protection and Security	
	IP 66 Protection; IK09
	Glass cover for PV unit to protect against sand abrasion
	Reverse polarity protection
	Low battery voltage cut-off
	Security pole door / vandal protection