

WOA5600-60

LTE-Fi vehicle-mounted wireless access point**Datasheet**

Integrated LTE-Fi vehicle-mounted wireless access point

SKSpruce WOA5600-60 is a high performance IEEE 802.11n outdoor wireless access point that uses mobile 3G and 4G LTE networks for backhaul connectivity, and is ideally suited for mounting in a vehicle. Compliant with IEEE 802.11b/g/n standards and supporting 2x2 MIMO, the WOA5600-60 also supports both FDD-LTE and TD-LTE wireless connectivity to provide users with seamless Wi-Fi connectivity in a vehicle, including support for delayed shutdown to prevent data loss when the vehicle is shut down.

The WOA5600-60 has a compact design, internal antennas and also provides an external Ethernet port which can be used to create a local area network (LAN). The WOA5600-60 is ideal for deploying Wi-Fi Hot Spot access in buses, light rail, and high speed trains.

Features

Designed for vehicles

- The WOA5600-60 supports internal antennas and the ACC interface. WOA5600-60 is capable of automatically downloading and running configuration from the gateway, which highly improves the deployment and maintenance efficiency.

Local storage

- The WOA5600-60 supports a Micro SD card for local storage of videos, music, web pages, and other types of files. In this way, terminal users can access rich local resources without connecting to the Internet.

Automatic 3G/4G switch

- The WOA5600-60 supports automatic switching between 3G and 4G networks, ensuring the user connects to the better network, which provides a better user experience.

Smart Link connectivity management

- Actively monitors link state and connectivity to the controller or gateway
- Intelligently responds to connectivity interruptions by maintaining user sessions and establishing new sessions without interruption

Flexible data forwarding network architecture

- Support for split bearer and control channels provides enhanced flexibility for small or large network design
- Configurable for central data forwarding, routing all data traffic through the central gateway to provide complete control of packet flows
- Local forwarding for network access maintains unified user management and security policy administration, while offering high bandwidth and low latency for remote sites

Practical log information

- The WOA5600-60 can keep records of Internet URL history and online duration for the Wi-Fi clients. It also records MAC address and equipment uptime of the WOA5600-60, fully meeting the policies and regulations typical for public deployments.

Vehicle-mount level

- With several mounting options, and a water-proof and dust-proof IP54 enclosure, the WOA5600-60 is designed for easy installation in a vehicle. In addition, the WOA5600-60 meets stringent vibration tests, easily accommodating levels typical in a vehicle.

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Specifications

Physical Specifications

Power input	Supports 9V-32V DC local power input
Overall power consumption	<12W
Dimensions (W x D x H)	7.28" x 5.55" x 1.30" (185 mm x 141 mm x 33 mm)
Weight	0.99 lbs (0.45 kg)
Ethernet ports	1 x 10/100Base-T
SIM	1 Mini SIM card interface
Storage	1 x Micro SD card, up to 128 GB (FAT32 format supported; standard configuration: 16 GB)
ACC interface	1 ACC interface
Indicators	1 Power indicator 1 Wi-Fi indicator 1 LAN indicator 1 4G indicator 1 GPS indicator
Operating temperature	-40°F to +131°F (-40°C to +55°C)
Storage temperature	-40°F to +158°F (-40°C to +70°C)
Relative humidity	0-90% noncondensing
Vibration	IEC60068-2-6:2007 standard
Ingress protection	IP54

WLAN Specifications

Antenna	Internal antenna, 1.8 dBi gain
LTE antenna	Internal antenna, 4 dBi gain
Operating frequency	802.11b/g/n: 2.4-2.4835 GHz
Spatial streams	2x2 MIMO
Maximum transmit power	23 dBm (20 dBm per chain)
Modulation technique	DSSS (11b): DBPSK @ 1 Mbps DQPSK @ 2 Mbps CCK @ 5.5/11 Mbps OFDM (11g): BPSK @ 6/9 Mbps QPSK @ 12/18 Mbps 16-QAM @ 24 Mbps 64-QAM @ 48/54 Mbps MIMO-OFDM (11n): MCS 0-23
Data rates	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: 20 MHz: 6.5-150 Mbps 40 MHz: 13.5-300 Mbps

Maximum SSIDs	16
Maximum concurrent users	128
802.11n	Maximal ratio combining (MRC) Maximum likelihood detection (MLD) Automatic channel scanning 20 MHz/40 MHz channel bandwidth A-MPDU, A-MSDU Dynamic frequency scaling Unscheduled automatic power save delivery (UAPSD)
Frequency band	FDD-LTE (B1, B2, B3, B5, B7) TD-LTE (B34, B38, B39, B40, B41) WCDMA (B1, B2, B5) TD-SCDMA (B34, B39) GSM850 EGSM900; DCS1800; PCS1900
Wi-Fi security and authentication	WEP 64/128 WPA/WPA2-PSK-TKIP WPA/WPA2-PSK-CCMP WPA/WPA2-802.1X-TKIP WPA/WPA2-802.1X-CCMP WAPI-PSK/CA MAC, Portal, Transparent Authentication, Dot1x Authentication (EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST)
Local AP functions	PPPoE client, NAT, DHCP server, DHCP client Configuration of local SSID, encryption and shared keys
QoS	Supports 802.1p, IP DSCP, 802.11e Supports rate-limiting based on STA/SSID/AP Supports RADIUS bandwidth property delivery
Management	Local management: console Remote management: Telnet, SSH, CAPWAP Network management and control: CAPWAP Supports remote upgrades through FTP Supports batch upgrades through multi-service gateway
ACC detection	Supports ACC signal detection
Delay shutdown	Supports 2.5-hour delay shutdown
Software	AmOS 1.5.3

Note: Specifications are subject to change.



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