

WOA5600-40

LTE-Fi outdoor wireless access point

Datasheet



Integrated LTE-Fi outdoor wireless access point

SKSpruce WOA5600-40 is a high performance IEEE 802.11n outdoor wireless access point that uses mobile 3G and 4G LTE networks for backhaul connectivity. Compliant with IEEE 802.11b/g/n standards and supporting 2x2 MIMO, the WOA5600-40 also supports both FDD-LTE and TD-LTE wireless connectivity to provide users with seamless Wi-Fi in areas where cabled backhaul networks present a challenge.

The WOA5600-40 is designed with an IP65-rated enclosure, high performance internal antennas, and also provides an Ethernet port which can be used to create a local area network (LAN). The WOA5600-40 is ideally suited for deployment in dense urban environments like plazas, parks and shopping arcades.

Features

Rich local AP functions

- Pioneering innovative AP functions while maintaining the management and control benefits of a centralized deployment is at the heart of SKSpruce's WOA5600-40. Supporting PPPoE, NAT, DHCP Server, DHCP Client, MAC ACL, local portal and activity log, the WOA5600-40 leads the market with a feature rich AP solution.

Local storage

- The WOA5600-40 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 WOA5600-40 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 Practical log information

- 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

- The WOA5600-40 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 WOA5600-40, fully meeting the policies and regulations typical for public deployments.

Outdoor deployment

- With a water-proof and dust-proof IP65 enclosure, the WOA5600-40 is designed for outdoor applications. In addition, the WOA5600-40 meets stringent vibration tests, easily accommodating levels typical in outdoor applications.

Ease of deployment

- With internal high performance antennas, WOA5600-40 makes outdoor deployments a breeze and dramatically reduces maintenance issues typically with external cabling and antennas. With a zero-touch approach to configuration and operation, the WOA5600-40 can download its configuration from the multi-service gateway and self-install. This greatly speeds deployments while minimizing resources required to install devices.

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Specifications

Physical Specifications

Power input	Supports local power input
Overall power consumption	<15W
Dimensions (W x D x H)	10.24" x 8.27" x 3.15" (260 mm x 210 mm x 80 mm)
Weight	5.16 lbs (2.34 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)
Indicators	1 Power/status indicator 1 Wi-Fi indicator 1 LTE 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	10–90% noncondensing
Vibration	IEC60068-2-6:2007 standard
Ingress protection	IP65

WLAN Specifications

Antenna	Internal antenna, 3 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 (U-APSD)
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 and 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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