

Sparklan WX-7800A 802.11a+g Access Point



The SparkLAN **WX-7800A** wireless 11a+g Dual-Band Access Point can be accessed in all three 802.11 wireless networks. **WX-7800A** contains two separate wireless connectivity radio transceivers, which support all three popular wireless networking specifications. One of the two transceivers uses 2.4GHz frequency band and supports both wireless 802.11b and 802.11g, which offers up to 11Mbps and 108Mbps data rate respectively. The other transceiver uses 5GHz frequency band and supports wireless 802.11a, also up to 108Mbps. Since two radio waves operate in different frequency bands, they can work simultaneously and cover your wireless zone with high-speed performance. In terms of security, **WX-7800A** offers up to 128-bit WEP Encryption and also includes MAC address filtering, which allows you to assign Internet Access to those you permit. The configuration and installation is made to be simple and fast following the web browser-based setup wizard.

Features

- Supports all 802.11a, 802.11b and 802.11g networks
- Wireless link speeds up to 108Mbps
- MAC address filtering and enhanced 152-bit WEP encryption
- WEB-based management and easy setup wizard
- Provide high performance universal wireless network connectivity
- Ideal for multimedia data transmission with high speed wireless performance
- Easy fast installation and setup
- WDS: AP, bridge, repeater and AP Client
- Atheros XR eXtended Range technology



Technical Specification

Standard	IEEE 802.11a 802.11b and 802.11g for WLAN IEEE 802.3 for wired LAN
Frequency Bands	802.11a: US: UNI-Band 5.15 – 5.35GHz EU: UNI-Band 5.15 – 5.35GHz UNI-Band 5.47 – 5.725GHz 802.11b/g: ISM Band: 2.412 – 2.4835GHz
Modulation	802.11b: 11 Mbps & 5.5 Mbps CCK; 2 Mbps DQPSK; 1 Mbps BPSK 802.11g and 802.11a: OFDM
Media Access Protocol	CSMA/CA with ACK
Transmit Power	IEEE 802.11a: max. 16 dBm @ 16QAM R3/4 IEEE 802.11g: typ. 16 dBm @ Normal Temp Range IEEE 802.11b: typ. 18 dBm @ Norma Temp Range
Receive Sensitivity	802.11a: 6 Mbps 10-5 BER @ -91 dBm 54 Mbps 10-5 BER @ -72 dBm 108 Mbps 10-5 BER @ -69 dBm 802.11g: 11 Mbps 10-5 BER @ -85 dBm 54 Mbps 10-5 BER @ -72 dBm 108 Mbps 10-5 BER @ -69 dBm
Data Rates	IEEE 802.11b (auto fallback): 11, 5.5, 2, 1 Mbps IEEE 802.11g & 802.11a (auto fallback): 108, 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Operating Range	802.11b: indoor 35-60m, outdoor 300m 802.11g: indoor 20m, outdoor 50 m 802.11a: indoor 100m, outdoor 300m <small>*The performance various depend on environment.</small>
Protocol	TCP/IP, IPX, NetBEUI
Management	Built-in HTTP Server for setup and remote management via any browser
Antenna	Detachable antenna, 802.11a: 4dBi (Peak Gain), 802.11b/g: 2 dBi (Peak Gain)
Security	Up to 64/128 bit WEP & WPA, MAC address filtering
Operating mode	AP, AP Client, Repeater, Point-Point and Point-Multipoint Bridge
Size	195 x 160 x 27 mm (LxWxH)
Weigthy	700g
Temperature	Operating: 0C - 40C Storing: -20C – 70C
Humidity	95%, Non-condesning
Power Supply	DC 5V, 2.5A
LAN Port	1 x 10/100Base T-Ethernet switch port (auto sensing)
LED Indicators	4 LED: Power, LAN, 11a Link/Act, 11g Link/Act
Reset Button	Reset to default setting (hold the reset button after 6 sec)
Certification	CE, FCC
Warranty	1 year