PRODUCT DATASHEET

Wireless Multi-Client Bridge/AP/ WDS 3054CB3 PLUS (Deluxe)

2.4 GHz 802.11 b/g 54 Mbps

The Wireless Multi-Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the 2.4 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps) wireless standards. It's the best way to add wireless capability to your existing wired network, or to add bandwidth to your wireless installation.



To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA. The MAC address filter lets you select exactly which stations should have access to your network. With the Wireless Multi-Client Bridge/Access Point/WDS, you'll experience the best wireless connectivity available today.

Features	Benefits
High RF Output Power	More coverage than regular multi-client bridge
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/ IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Allows users to transfer data between multiple buildings
Power-over-Ethernet (IEEE 802.3af Complaint)	Flexible Access Point locations and cost savings
WPA (TKIP/ Pre-shared key) support	Powerful data security
Hide SSID (AP Mode)	Avoids unauthorized users from sharing the bandwidth and increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
WDS (Wireless Distribution System)	Configures wireless AP and Bridge mode simultaneously as a wireless repeater
MAC address filtering (AP Mode)	Ensures secure network connections
Seamless Roaming	Allows users to roam between APs without losing their network connection.

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice. 5/11/2005

Technical Specifications

Data Rates
1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards
IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

Compatibility
IEEE 802.11g/ IEEE 802.11b compliant

Power Requirements
Power Supply: 90 to 240 VDC ± 10% (depends on different countries)
Device: 12 V/ 1A

Status LEDs
LAN: Link, WLAN: Link, Power: on/off

Regulation Certifications
FCC Part 15/UL, ETSI 300/328/CE

RF Information

Frequency Band
2.400～2.484 GHz

Media Access Protocol
Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology
Orthogonal Frequency Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels
11 for North America, 14 for Japan, 13 for Europe,
2 for Spain, 4 for France

Receive Sensitivity (Typical)
-94dBm @ 1Mbps
-92dBm @ 2Mbps
-89dBm @ 5.5Mbps
-86dBm @ 11Mbps
-92dBm @ 6Mbps
-90dBm @ 9Mbps
-88dBm @ 12Mbps
-86dBm @ 18Mbps
-83dBm @ 24Mbps
-79dBm @ 36Mbps
-74dBm @ 48Mbps
-72dBm @ 54Mbps

Available transmit power (Typical)
21 ± 2dBm @1, 2, 5.5 and 11Mbps
20 ± 2dBm @6, 9, 12, 18Mbps
17 ± 2dBm @24, 36Mbps
16 ± 2dBm @48, 54Mbps

RF Connector
TNC Type (Female Reverse)

Networking

Topology
Ad-Hoc, Infrastructure

Operation Mode
Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS

Interface
One 10/100Mbps RJ-45 LAN Port

Security
IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTLS) Support—AP Mode
WPA – Wi-Fi Protected Access
- PSK (Pre share key) with 64/ 128-bit WEP Key
- EAP-MD5/TLS/ TTLS authenticator (AP Mode) support
- TKIP

MAC address filtering (WLAN)
Hide SSID in beacons
Layer 2 isolation

IP Auto-configuration
DHCP client/server

Management

Configuration
Web-based configuration (HTTP)

Firmware Upgrade
Upgrade firmware via web-browser

Physical

Dimensions (HxWxD)
125(L)mm * 108(W)mm * 31(H)mm
4.9 (L)in* 4.3(W)in * 1.2(H)in

Weight
350 g (0.8 lb.)

Environmental

Temperature Range
Operating: -10°C to 45°C (14°F to 113°F) -
Storage: -40°Cto 70°C (-40°F to 158°F)

Humidity (non-condensing)
5%~95% Typical

Package Contents
One Multi-Client/AP/WDS
One Power Adapter
One CAT5 UTP Cable
One Quick Start Guide
One CD-ROM with User's Manual

Related Product(s)
11a/b/g Wireless Cardbus Adapter
- 3054CB+ (802.11g)
- 3054CB+ Aries2 (802.11g)
- SPC-362 (802.11g)
- 5354CB+ Aries2 (802.11a/b/g)

11a/b/g High-power Wireless USB Adapter
- SUB-362 (802.11b/g)
- SUB-862 (802.11a/b/g)

11b High-power Wireless Cardbus Adapter
- 2511CD+

11b High-power Client Bridge
- 2611CB3+(Deluxe)

11b Outdoor AP/ Router
- 2511HS+
- 2511BG+

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice. 5/11/2005