

**Wireless Outdoor Bridge/ Router**

**SL-2511BG PLUS**

**2.4 GHz**

**802.11 b**

**11 Mbps**

First Router/Bridge of its kind built for All Weather Proof. Robust die-cast watertight enclosure certified with IP 68 Level of Protection. Ideal to link two or more buildings, or to create wireless backbone networks and Internet access for residential and enterprise users. Long range (up to 20Km), Point-to-Point and Point-to-Multipoint links.



Features	Benefits
Excellent Range with Antenna and Power Amplifier Options	Provides wireless link up to 25km(16miles ) using antennas and power amplifiers
Point-to-point, Point-to-multipoint Wireless Connectivity	Allow users to transfer information between two buildings or multiple buildings across the area
Lightning Protector	Prevent a lightning stroke to damage the internal equipments
Wide temperature range and robust mechanical design	Delivers reliable, top performance in the most demanding environments
Watertight and Weatherproof	Avoid water invaded and weather corroded
IP Routing Support	Standard IP Routing enables multiple LANs in different IP-Subnet
Power over Ethernet (PoE)	Easy installation and cost-effective
64 /128-bit WEP Data Encryption	Powerful data security
Hide SSID (Central Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
Supports NAT (Network Address Translation)/NAPT	Shares single Internet account and provides a type of firewall by hiding internal IP addresses for keeping hacker out
Web/Telnet/SNMP Remote Configuration Management	Helps administrators to remotely configure or manage the Bridge with web browser
MAC Address Filtering	Ensures secure network connection
SNMP Management	Supports SNMP for use with existing network management tools
Virtual Server Mapping	Allows some of computers in wireless LAN network to be accessible from outside network
DHCP Client/ Server	Simplifies network administration

\* 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.

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## Technical Specifications

### Data Rates

1, 2, 5.5, 11 Mbps

### Standards

IEEE802.11b, IEEE802.3,  
IEEE802.3u

### Compatibility

IEEE 802.11g/ IEEE 802.11b  
compliant

### Power Requirements

Active Ethernet (Power over  
Ethernet) –48 VDC/0.7A

External Unit: Auto sensing  
100/240 VAC; 50/60 Hz

### Surge Arrester (Option)

20KA Surge Current

### 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

Direct Sequence Spread  
Spectrum (DSSS)  
11 Mbps / 5.5 Mbps: CCK  
2 Mbps: DQPSK  
1 Mbps: DBPSK

#### Operating Channels

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

#### Receive Sensitivity (Typical)

-94dBm @ 1Mbps  
-86dBm @ 11Mbps

#### Available transmit power (Typical)

21 ± 2dBm @1, 2, 5.5 and  
11Mbps (Depend on  
Different Countries'  
Regulation)

#### RF Connector

N Type (Female Reverse)

### Networking

#### Topology

Ad-Hoc, Infrastructure

#### Operation Mode

Point-to-Point/ Point-to-  
Multipoint Bridge

#### Interface

One 10/100Mbps RJ-45 LAN  
Port

#### Protocol

Bridge  
TCP/IP  
NAT/NAPT (IP Sharing)  
Virtual Server mapping  
DHCP client/ server  
BOOTP server  
Static Routing

#### Security

MAC address filtering  
PPP PAP/CHAP  
Authentication in Web-Based  
manager  
64/128-bit WEP encryption  
Hide SSID in beacons  
Denial 802.11 "Any" station

#### IP Auto-configuration

DHCP client/server

#### Management

#### Configuration

Web-based configuration  
(HTTP)  
Telnet configuration  
SNMP Agent (MIB I / II)

#### Firmware Upgrade

Upgrade via Serial Interface  
(RS-232) / TFTP

### Physical

#### Dimensions (HxWxD)

245(L)mm \* 200(W)mm \*  
70(H)mm  
9.6(L)in. \* 7.9(W) in. \* 2.8(H)  
in.

#### Weight

2.1Kg (4.6 lb)

### Environmental

#### Temperature Range

Operating: -20°C to 70°C  
(-4°F to 158°F) -  
Storage: -40°C to 80°C  
(-40°F to 176°F)

#### Humidity (non- condensing)

5%~95% Typical

### Package Contents

- Router/Bridge Unit
- Inline Power Injector
- AC Power Cord
- MIL-C-5015 style RS232  
Console Port Cable
- Grounding Wire
- Ethernet Cable
- Reverse Polarity-N Female  
RF Cable
- 30M MIL-C-5015 style  
Ethernet Cable
- Mast Mounting Kit (Wall  
Mounting Kit)
- Wall Mounting Kit (Mast  
Mounting Kit)
- User's Manual Disk
- Simple Spanner

### Related Product(s)

- 11g Wireless Cardbus Adapter  
SL-3054CB+ Aries2  
SPC-362
- 11b High-power Wireless  
PCMCIA Adapter  
SL-2511CD PLUS
- 11b/g High-power Client Bridge  
SL-2611CB3+ (Deluxe)  
SL-3054CB3+ (Deluxe)
- 11b Outdoor AP/ Client Bridge  
SL-2611CB5 PLUS

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