

SB-110

Meets
MIL-STD 810

- | | |
|------------------|----------------------|
| Bridge mode | Access Point mode |
| Roaming function | DHCP server |
| IP routing | Compact design |
| LED indication | 128/64-bit WEP |
| MAC address | ESS ID |
| 100/10 Base LAN | Outdoor installation |



Up to 800m* wireless connection between buildings at 11Mbps (* at line of sight)

Outdoor wireless LAN bridge

The SB-110 links two or more remote LANs over the air at 11Mbps for a distance of up to 800m (half mile) at line of sight. Outdoor set up gives the advantage of building to building network connection and eliminates the need for expensive leased lines or messy wiring.

Wireless Access Point

The Access Point mode allows wireless access to a wired LAN or the Internet. An ideal solution for people on the move, temporary worksites and business where network access outdoors is needed. Network clients can easily access the network with an IEEE 802.11b compatible network card/adaptor and a PC.

Security functions

The SB-110 supports the 128/64-bit WEP encryption, MAC address registration and ESS ID. These functions ensure a secure network connection.

IP routing function

IP routing efficiently controls the way IP packets are sent and reduces network traffic between the bridges to maintain optimum data transfer speed and stability. Dynamic routing, which uses RIP1 (Routing Information Protocol), and static routing, which manually controls the routing table, are also available.

Multiple angle mounting

The optional MB-89 provides easy mast mounting of the SB-110. The tilt and rotating angle is adjustable to establish a stable communication link between SB-110s.



Setting examples

Rugged construction

The compact and light weight body is covered with reinforced resin. The weather resistant construction (equivalent to JIS4) allows for outside installation. In fact, the SB-110 is so well made that it meets MIL-STD 810 C, D, E and F requirements.

Other features

- 100Base-TX Ethernet and DC power are combined into one cable for easy installation.
- Syslog setting sends a system message to an administrator
- When in Access Point mode, a Roaming function allows even greater flexible mobility for connected clients
- DHCP server function automatically obtains an IP address for local clients
- Easy setup using your Web Browser

SPECIFICATIONS

GENERAL

- Input voltage : 12V DC \pm 5% (Use with supplied AC adapter)
- Current drain : 400 mA typ.
- Operating temperature range : 0°C to +45°C; +32°F to +113°F guaranteed
- Dimensions : 140(W) \times 120(H) \times 50(D) mm;
(Projections are not included) 5½(W) \times 4¾(H) \times 1½(D) in
- Weight (Including Cables; approx.) : 960g; 2.1lb
- Compatible operating systems : Microsoft® Windows® Me/XP/98/2000 for utility software

WIRELESS SECTION

- Standard : IEEE 802.11b
- Data transfer rate : Auto (1/2/5.5/11Mbps)
- Antenna : Pattern antenna (Built-in, non-replaceable)
- Antenna gain : 5.5dBi
- Spreading system : Direct sequence spread-spectrum communication system
- Modulation : DPSK, DQPSK
- Frequency range : 2400–2483.5MHz (Varies depending on version)
- Number of channels : 13 (Varies depending on version)
- Output power : 100mW or less
- Security : 128/64-bit WEP, MAC address registration
- Sensitivity : –76dBm or better (@FER=Less than 8%)
- Communication distance (at line of sight, auto transfer rate)
 - LAN to LAN Bridge mode : approx. 800m (2600ft)
 - Access Point mode : approx. 70m (229ft)

WIRED SECTION

- LAN Interface : Ethernet plug (type RJ-45)
Based on IEEE802.3 (10 Base-T)
Based on IEEE802.3u (100 Base-TX)
- Data transfer rate : 10/100Mbps (switched automatically)
- Routing system : Static/Dynamic (RIP1)

Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	–
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	–
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied Accessories

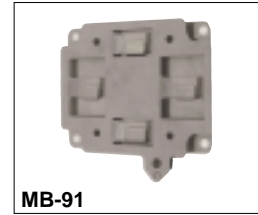
- AC adapter
- CD-ROM (Utility software)
- Mounting bracket kit
- * 3m cable (Ethernet and power) is attached to the unit.

All stated specifications are subject to change without notice or obligation. Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

OPTIONS



MB-89

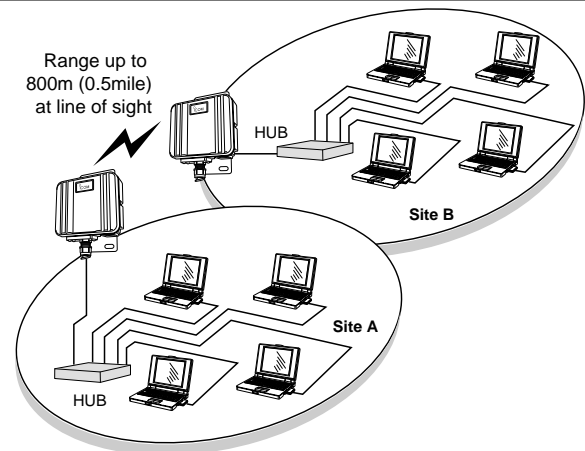


MB-91

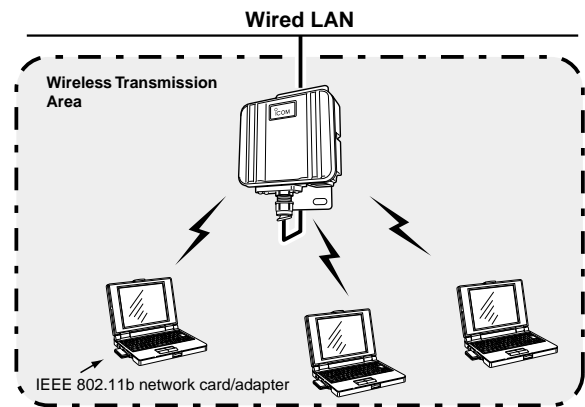
- MB-89 ELEVATION ANGLE BRACKET
- MB-91 WALL MOUNT PLATE
- OPC-1172 EXTENSION LAN CABLE (20m)
- OPC-1173 EXTENSION LAN CABLE (50m)

SYSTEM OVERVIEW

BRIDGE MODE



ACCESS POINT MODE



Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (425) 454-8155 Fax: (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone : (425) 454-7619

Icom Canada

Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: (604) 952-4266 Fax: (604) 952-0090
URL : <http://www.icomcanada.com>

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: 03 9387 0666 Fax: 03 9387 0022
URL : <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: 09 274 4062 Fax: 09 274 4708
URL : <http://www.icom.co.nz>

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: 0211 346047 Fax: 0211 333639
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750
08190 Sant Cugat del Valles Barcelona, SPAIN
Phone: (93) 590 26 70 Fax: (93) 589 04 46
URL : <http://www.icomspain.com>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: 01227 741741 Fax: 01227 741742
URL : <http://www.icomuk.co.uk>

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulins
BP 5804, 31505 Toulouse Cedex, France
Phone: 561 36 03 03 Fax: 561 36 03 00
URL : <http://www.icom-france.com>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: (02) 2559 1899 Fax: (02) 2559 1874
URL : <http://www.asia-icom.com>

Beijing Icom Ltd.

1305, Wanshang Plaza, Shijingshan Road,
Beijing, China
Phone: (010) 6866 6337 Fax: (010) 6866 3553
URL : <http://www.icom.com>



Certificate Number Q24190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

Your local distributor/dealer: