

IP Communication Terminal

IP100H

Remote Communicator

IP100FS

Controller

IP1000C

Full-Duplex Communication That Works Over a Wireless LAN and IP Network*

- Easy system to set up and use
- Up to 100 users can communicate at the same time
- Encryption provides extra security
- Range is only restricted by your IP network coverage
- No licence fee required, no call charges



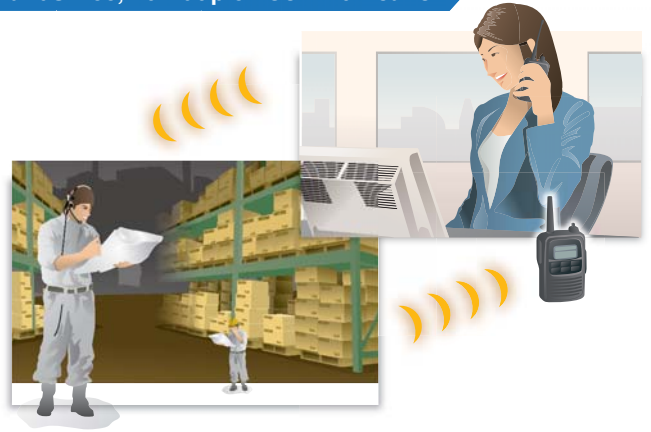
Wireless LAN System Extends Your Communication Coverage.

Individual, Group or Area Communication



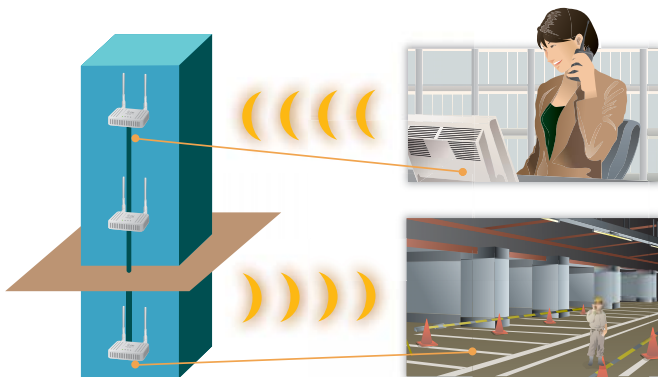
Staff spread across an extended site, such as a hotel, can communicate seamlessly.

Hands-free, Full-duplex Communication



With an optional earphone-mic or headset HS-102 or HS-85, the IP100H user can talk and receive simultaneously like a phone call. Hands-free operation allows your staff to carry out other tasks at the same time.

Intra-building Communication



By deploying access points along the IP network, the IP advanced radio system can communicate all the way from the basement to the top floor. The IP100H can access the nearest access point and can roam between access points*. *Same SSIDs are required for roaming use.

Dispersed Sites Communication



If connected over an Internet VPN, the IP100H/IP100FS can communicate between dispersed sites such as offices or shops in different cities.

Application examples

Hotels

Warehouse / Manufacturing

Hospitals

Security

Restaurant / Drive Thru

Supermarkets / Retail Shops

IP Communication Terminal **IP100H**

- IPX7 waterproof (1m depth water for 30 minutes) for outdoor work or places prone to get wet.
- Compact 58×95×26.4 mm body and 205g (approximate) lightweight.
- Vibration alert function for incoming calls.



* The IP100H can be used with an internal antenna. (Communication range will decrease to half from/to access points.)



Wireless LAN Access Point **AP-90M**

- IEEE 802.11 a/b/g/n/ac compliant
- PoE (Power over Ethernet) capability
- Optional RS-AP3, Access point management software



Remote Communicator **IP100FS**

(Supplied with USB flash drive for use as a USB hardware key)

- The IP100FS can communicate with IP communication terminals from a PC.
- The IP100FS can obtain location information of each IP100H based on the access point being used.
- Can be installed on a Windows® based tablet PC as well as a laptop PC.



Controller **IP1000C**

- The IP1000C controls all terminal configurations and voice traffic.
- Capable of controlling up to 100 or 20* terminals (including IP100FSs).
- Links up to 11 IP1000Cs over an IP network (Internet VPN) and increases the number of usable IP100H/IP100FS communication terminals to 1100 units.



* Depending on the IP1000C version.

Full-duplex Communication

With an optional earphone-mic or headset HS-102 or HS-85, the IP100H can talk and receive at the same time. All users in the system can communicate simultaneously.

High Security

The wireless LAN security protocols (WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)) encrypt your private conversations.

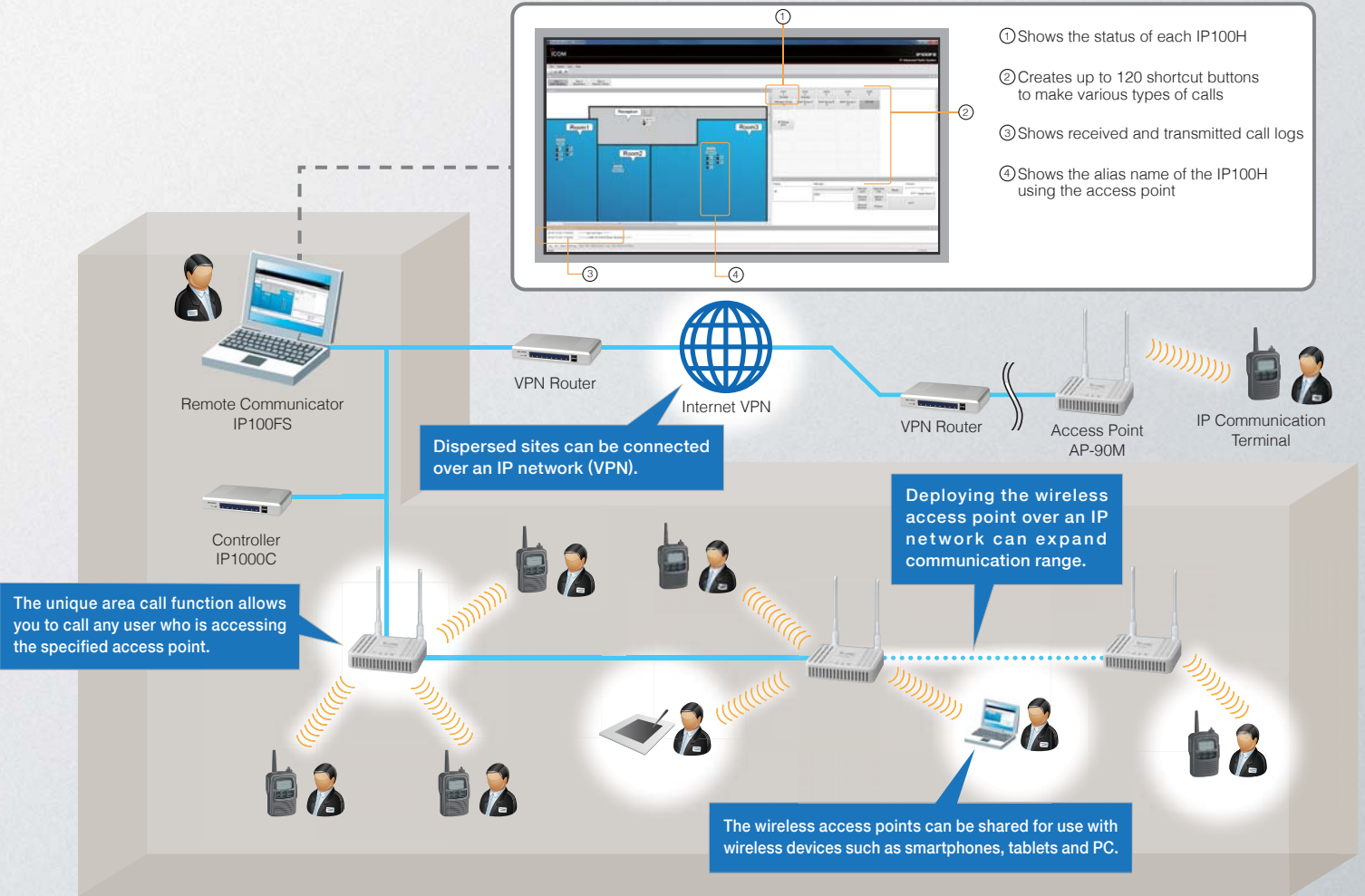
Status and Short Data Messaging

The IP100H/IP100FS can send status and short data messages* to other users.

* The IP100H can send only preprogrammed messages.

Easy System to Set Up and Use

The IP1000C programs almost all terminal configurations over the air. Individual PC programming via cable connection is not required. (Except initial setup)



RoIP GATEWAY

IP Phone and Transceiver Interconnection

With a VE-PG3 RoIP gateway, the IP advanced radio system can interconnect with an IP phone, IDAS™ NXDN™*1, IDAS™ dPMR™ Mode 2 digital and analogue transceivers. When used with an IP phone system, the IP100H can be used as a phone handset for making internal or external calls.*2

*1 NXDN™ Type-D multi-site trunking and conventional system using the IC-FR5000/FR5200H series.

*2 For interconnection with other equipment, verification tests are required before the installation. The IP100H can call a preprogrammed phone number only. (Cannot manually enter phone numbers to make a call.)



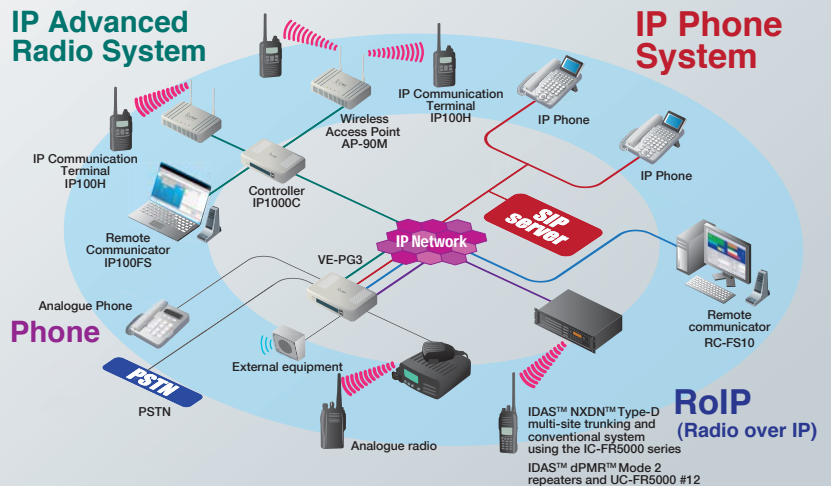
RoIP Gateway
VE-PG3

Interconnection image

The IP communication terminals, radios and telephones can communicate with each other within the doughnut shaped blue ring.

IP Advanced Radio System

IP Phone System



IP ADVANCED RADIO SYSTEM

SPECIFICATIONS

IP100H

Wireless standards	IEEE 802.11 a/b/g/n
Frequency range	2.4-2.4835 GHz, 5.15-5.35, 5.47-5.85 GHz
Dimensions (W x H x D) ¹⁾	58 x 95 x 26.4 mm; 2.3 x 3.7 x 1.0 in (with BP-271)
Weight (approx.)	205 g; 7.2 oz (with BP-271 and antenna)
Operating time ²⁾	More than 20 hours (with BP-271)
RF output power	Less than 10 mW/MHz
Voice Codec	G.711 μ -law (64 kbps)
AF output power (10% distortion)	Internal SP 400 mW (typ., 16 Ω load), External SP 200 mW (typ., 8 Ω load)
Security	WEP (64/128-bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)
Operating temperature	-10 °C to +60 °C; +14 °F to +140 °F

¹⁾ Projections are not included. ²⁾ Tx: Rx: Stand-by=1 : 1 : 8 duty cycle

Supplied accessories

- BP-271 Li-ion battery pack
- MB-127 belt clip
- Hand strap
- Antenna
- Antenna cap

IP100FS (System requirements)

Operating system	Windows® 10 (32-bit/64-bit), Windows® 8/Windows® 8.1 (32-bit/64-bit) Windows® 7 (32-bit/64-bit) SP1 or later, Windows Vista® (32-bit/64-bit) SP2 or later, (Except for Windows® RT)
CPU	Intel® Core™ 2 Duo Processor E6600/ 2.4 GHz or better
Memory	2 GB or higher
Hard disk space	1 GB of disk space (for saving log files)
Audio	DirectSound compatible audio (Frequency response up to 20 kHz, sampling rate 48 kHz)
Display resolution	1920x1080 pixel recommended 1024x768 pixel minimum
Other	USB 2.0 port, 10 Mbps or faster Ethernet interface, speaker, microphone or headset

IP1000C

Power supply	100-240 V AC (With supplied AC adapter)
Operating temperature	0 °C to +40 °C; +32 °F to +104 °F
Dimensions (W x H x D) ³⁾	232 x 38 x 168 mm; 9.1 x 1.5 x 6.6 in
Weight (approx.)	750 g; 1.65 lb (Main unit only)
LAN	RJ-45 connector x 4 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X)
USB	Standard A receptacles x 2
Maintenance console	RS-232C (RJ-11) connector

³⁾ Projections are not included.

Supplied accessories

- BC-207S AC adapter
- Cushion sheets
- Ferrite core

AP-90M

Power supply	12 V DC \pm 10% or PoE (IEEE802.3af compatible)
Dimensions (W x H x D) ⁴⁾	120 x 29 x 103 mm; 4.7 x 1.1 x 4.1 in
Weight (approx.)	300 g; 10.6 oz (Main unit only)
Wired LAN	RJ-45 connector x 1 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X)
Wireless LAN	IEEE 802.11 a/b/g/n/ac
Frequency range	2.4-2.4835 GHz, 5.15-5.35, 5.47-5.85 GHz
Security	WEP (64/128/152-bit), WPA, WPA2, WPA-PSK, WPA2-PSK
Operating temperature	0 °C to +40 °C; +32 °F to +140 °F

⁴⁾ Projections are not included.

Supplied accessories

- Mounting bracket

All stated specifications are subject to change without notice or obligation.

OPTIONS

For IP100H



BP-271
Rechargeable Li-ion
1150/1200 mAh
(min./typ.)

BP-272
Rechargeable Li-ion
1880/2000 mAh
(min./typ.)

BP-273
LR6 (AA)
batteries x 3

Rapid charger



BC-202 **BC-123S***

* BC-123SA for USA plug, SE for Europe plug, SV for Australia plug.

Multi-charger



BC-211 **BC-157S**

Headsets (Full-duplex operation)



HS-102 **HS-85**
Earphone type. Over-the-head type.
OPC-2359 is required. OPC-2144 is required.

Earphone-microphones (Full-duplex operation)



HM-153LS **HM-166LS**
Use HM-153LS or HM-166LS for full-duplex operation also.

Speaker-microphones (Simplex operation)



HM-183LS **HM-186LS**
IPX7 Waterproof

Headsets (Simplex operation)



HS-94* **HS-95*** **HS-97***
Earhook type Behind-the-head type Throat type

* Either OPC-2006LS or OPC-2328 is required when using any of these headsets.

- **MB-127:** Belt Clip. Same as supplied.
- **OPC-2144:** Slim L-Type plug adapter cable. Required when using either HS-85, HM-153 or HM-166.
- **OPC-2006LS:** Plug adapter cable
- **OPC-2328:** PTT switch cable
Either OPC-2006LS or OPC-2328 is required when using any of HS-94, HS-95 or HS-97.
- **OPC-2359:** PTT switch cable
OPC-2359 is required when using HS-102.
- **OPC-478UC + OPC-2144:** Setup cables. Both cables are required for initial setup.

For IP100FS



CT-23



BC-147S*
For use with CT-23

*BC-147SA for USA plug, SE for Europe plug, SV for Australia plug.



SM-26



HM-152

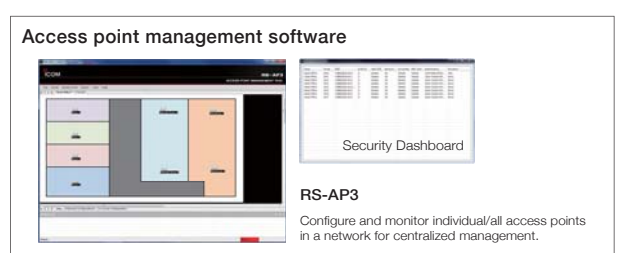


OPC-1402

For AP-90M



BC-207S



RS-AP3

Configure and monitor individual/all access points in a network for centralized management.

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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

12421 Willows Road NE,
Kirkland, WA 98034, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: <http://www.icomamerica.com>

Icom (Europe) GmbH

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
E-mail: info@icom-europe.com
URL: <http://www.icom-europe.com>

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejonn des Moulains, BP 45804,
31505 Toulouse Cedex 5, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: <http://www.icom-france.com>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada

Glenwood Centre #150-6165
Highway 17A, Delta, B.C.,
V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: <http://www.icomcanada.com>

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

Icom Brazil

Rua Itororó, 444 Padre Eustáquio
Belo Horizonte MG,
CEP: 30720-450, Brazil
Phone: +55 (31) 3582 8847
Fax: +55 (31) 3582 8987
E-mail: sales@icombrasil.com

Icom (UK) Ltd.

Blacksole House, Altira Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (0) 1227 741741
Fax: +44 (0) 1227 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Icom New Zealand

39C Rennie Drive, Airport Oaks,
Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: <http://www.icom.co.nz>