

IP ADVANCED RADIO SYSTEM

IP Communication Terminal

IP100FS

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



Wireless LAN System Extends Your Communication Coverage.

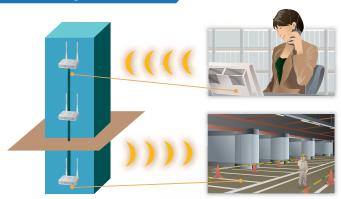


Staff spread across an extended site, such as a hotel, can communicate seamlessly.



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.

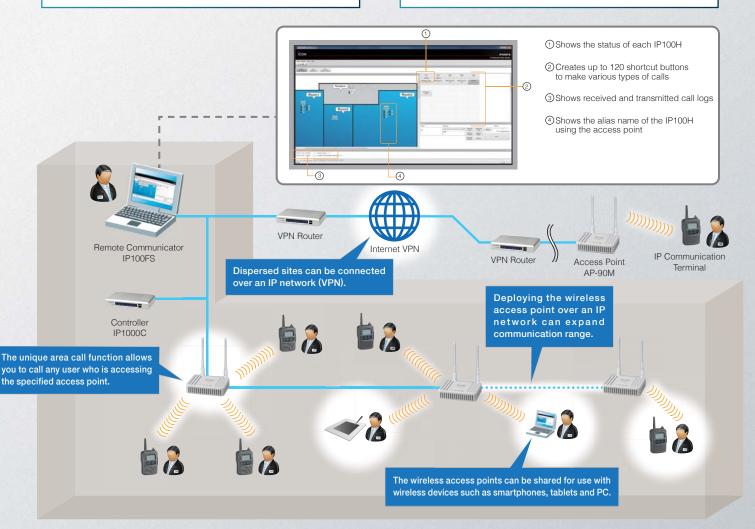
Status and Short Data Messaging

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.

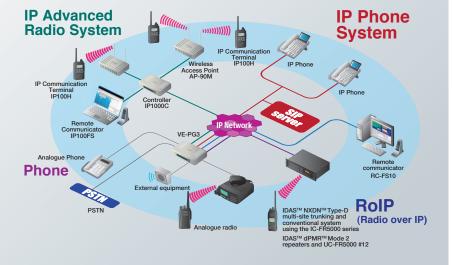
When used with an IP phone system, the IP100H can be used as a phone handset for making internal or external calls.*

- $^{\star 1}$ NXDN $^{\rm TM}$ 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.



SPECIFICATIONS

| IP100H | |
|---|---|
| Wireless standards | IEEE 802.11 a/b/g/n |
| Frequency range | 2.4-2.4835GHz, 5.15-5.35, 5.47-5.85GHz |
| Dimensions (W×H×D)*1 | 58×95×26.4 mm; 2.28×3.74×1.04 in (with BP-271) |
| Weight (approx.) | 205g; 7.2oz (with BP-271 and antenna) |
| Operating time*2 | More than 20 hours (with BP-271) |
| RF output power | Less than 10mW/MHz |
| Voice Codec | G.711 µ-law (64kbps) |
| AF output power (10% distortion) | Internal SP 400mW (typ., 16Ω load), External SP 200mW (typ., 8Ω 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 |
| 11 Projections are not included. 12 Tx: Rx: Stand-by=1:1:8 duty cycle | |

Supplied accessories

BP-271 Li-ion battery pack
 Hand strap

• MB-127 belt clip • Antenna

IP100FS (System requirements)

| IP 100F3 (System requirements) | |
|--------------------------------|---|
| Operating system | 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/ 2.4GHz or better |
| Memory | 2GB or higher |
| Hard disk space | 1GB of disk space (for saving log files) |
| Audio | DirectSound compatible audio (Frequency response up to 20kHz, sampling rate 48kHz) |
| Display resolution | 1920×1080 pixel recommended 1024×768 pixel minimum |
| Other | USB 2.0 port, 10Mbps or faster Ethernet interface, speaker, microphone or headset |
| | |

IP1000C

| Power supply | 100-240V AC (With supplied AC adapter) |
|----------------------------------|---|
| Operating temperature | 0°C to +40°C; +32°F to +104°F |
| Dimensions (W×H×D) ⁻³ | 232×38×168 mm; 9.13×1.5×6.61 in |
| Weight (approx.) | 750g; 1.65lb (Main unit only) |
| LAN | RJ-45 connector × 4 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X) |
| USB | Standard A receptacles ×2 |
| Maintenance console | BS-232C (B.I-11) connector |

³ Projections are not included

Supplied accessories BC-207S AC adapter

• Cushion sheets • Ferrite core

AP-90M

| Power supply | 12V DC ±10% or PoE (IEEE802.3af compatible) |
|-----------------------|---|
| Dimensions (W×H×D)*4 | 120×29×103 mm; 4.72×1.14×4.06 in |
| Weight (approx.) | 300g; 10.6oz (Main unit only) |
| Wired LAN | RJ-45 connector × 1 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X) |
| Wireless LAN | IEEE 802.11 a/b/g/n/ac |
| Frequency range | 2.4-2.4835GHz, 5.15-5.35, 5.47-5.85GHz |
| Security | WEP (64/128/152-bit), WPA, WPA2, WPA-PSK, WPA2-PSK |
| Operating temperature | 0°C to +40°C; +32°F to +140°F |
| AD-i-ti | |

Supplied accessories • Mounting bracket

All stated specifications are subject to change without notice or obligation

OPTIONS

For IP100H



(min./typ.)





1150/1200mAh 1880/2000mAh LR6 (AA) (min./typ.)



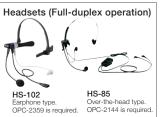
batteries ×3



Earphone-microphones

(Full-duplex operation)











• MB-127: Belt Clip. Same as supplied.

• OPC-2144: Slim L-Type plug adapter cable. Required when using either HS-85, HM-153, HM-166 or SP-13.

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





Desktop microphone



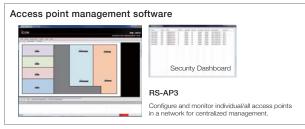
For IP1000C



Count on us!

For AP-90M





Icom, Icom Inc. and Icom Iogo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. IDAS and IDAS logo are trademarks of Icom Incorporated. NXDN is a trademark of Icom Incorporated and JVC KENWOOD Corporation. dPMR is a trademark of the dPMR MoU Association. Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the properties of their respective holders.

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 Canada

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

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@icombrazil.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
Fax: +49 (6196) 76680-50
URL: http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: 434 (93) 590 26 70 Fax: +34 (93) 589 04 46 E-mail: icom@icomspain.com
URL: http://www.icomspain.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 France s.a.s.

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

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

Asia Icom Inc. ASIa ICOTT ITTC.

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: