Wi-Fi 7 ETHERNET ROUTER

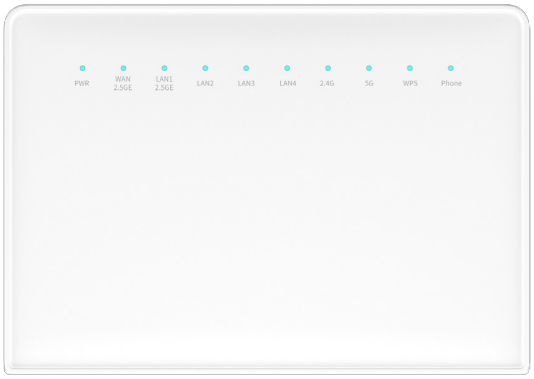
i4870 series

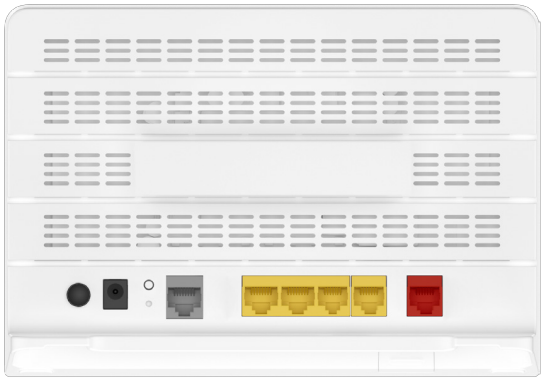
Residential Wi-Fi 7 Router



The Icotera i4872 and i4873 dual-band Wi-Fi 7 routers provide your customers with a data transfer speed of over 2 Gbps for both wireless and wired connections. Both routers use a 2.5 Gbps non-blocking switch architecture. They feature powerful Wi-Fi radios with internal antennas, making them a perfect solution for a home network setup.

- Wi-Fi 7 connectivity
- Up to 6.4 Gbps combined Wi-Fi link rate
- 2.5 Gbps non-blocking switch architecture
- Freestanding or wall-mounted installation
- Secure VoIP (1 POTS line)





Simple installation and management

With a power-effective design, the Icotera i4870 router looks great as a freestanding device. At the same time, keyholes and enough space for cables at the back make it possible to install this router as a wall-mounted device.

Advanced features

To enhance the coverage of their local wireless network, end-users can install the Icotera i4870 as an access point. To improve their gaming or streaming experience, end-users can connect devices to four LAN ports.

Icotera

i4870 Residential Wi-Fi 7 Router

FEATURES

- 2 + 4 Wi-Fi configuration
- Wi-Fi link rate up to 6.4 Gbps (BE6400)
- Low power consumption
- Dual-core ARM Cortex-A55 1.2 GHz
- 2.5 Gbps non-blocking switch architecture
- Optional operator branding
- Optional customised firmware

NETWORK COMMUNICATION

WAN INTERFACE

- 2.5 Gbps WAN (RJ45)
- Full-duplex transmission
- Auto-negotiation for speed and duplex
- Energy-Efficient Ethernet (EEE)

LAN INTERFACE

- 2.5 Gbps LAN
- 3x1 Gbps LAN
- Auto-negotiation for speed and duplex

LAYER 2

- IEEE 802.1d transparent bridge
- STP/RSTP
- IGMP v1/v2 snooping
- VLAN support
- Transparent IPv6 forwarding

LAYER 3

- Virtual interfaces
- Stateful IPv4 and IPv6 firewall
- Supports routing for IPv4 and IPv6
- IPv4: SNAT, DNAT, DMZ, DNS proxy, DHCP client and server
- IPv6: Prefix delegation
- PPPoE (termination)
- DS-Lite

WI-FI

- Up to 4 SSIDs
- Automatic channel selection
- Repeater mode
- EasyMesh R6 agent and controller
- Client steering
- Authentication methods: WPA3 Personal, Open, WPA2 Personal
- Downlink MU-MIMO and OFDMA
- Support for unequal MCS
- Support for target wake time (TWT)
- WMM for resilient video and voice delivery
- Backwards compatible with previous Wi-Fi standards (6, 5, and 4)

2.4 GHZ BAND (802.11AX)

- Bandwidth support: 20 MHz and 40 MHz
- Modulation support: MCS 0-11
- Up to 1024-QAM modulation

5 GHZ BAND (802.11BE)

- Bandwidth support: 20 MHz, 40 MHz, 80 MHz, and 160 MHz
- Modulation support: MCS 0-13
- Up to 4096-QAM modulation
- 5th chain for RX and DFS improvements
- Continuous background ZW-DFS

VOIP (I4873-00 ONLY)

- 1 POTS line
- SIP client with UDP, TCP, and TLS + SRTP
- Up to 5 ringer equivalence numbers
- Caller ID support (DTMF/FSK)
- DTMF signalling for SIP INFO, inband, auto, and RFC 2833
- CLIR
- Advanced dialplan
- Called party (B-Number) manipulation
- Class 5 services: forward all calls, forward on busy, forward on no answer, and call waiting
- Codecs: G.711A a-law, G.711U Q-law, G.722, and G.729
- Codec negotiation
- Modem or fax detection
- G.168 echo cancellation

MANAGEMENT AND MONITORING

- Shared IP interface for management
- Web interface for end users
- L3 filters for all local services
- Zero-touch provisioning with DHCP and TR-069
- TR-069 with TLS: TR-181 (Network), TR-104 (VoIP, i4873-00)
- All settings are stored locally in flash memory
- Dual bank flash memory with fail-safe firmware upgrading
- TR-143 for performance data and throughput statistics up to 2.5 Gbps

PHYSICAL SPECIFICATIONS

- Size: 200 x 139 x 32 mm (W x H x D)
- Weight: 300 g
- Front LED indicators: Power, Uplink, LAN ports, Wi-Fi 2.4 GHz band, Wi-Fi 5 GHz band, WPS, Phone (i4873-00)
- On/Off, WPS, and reset buttons

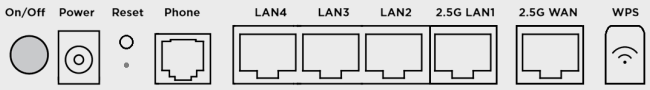
OPERATIONAL SPECIFICATIONS

- DC 12 V input
- Operating temperature: 0°C – 40°C
- Storage temperature: -30°C – 70°C
- Humidity: 5% – 95% (noncondensing)

INCLUDED IN THE BOX

- Icotera i4870 router
- Ethernet cable
- 12 V 1.5 A power supply unit
- Additional label with Wi-Fi credentials

Icotera i4870 configuration options



Model	Uplink	LAN	POTS	Wi-Fi	Peak Wi-Fi link rate	Radio chains
i4872-00	**2.5 Gbps WAN (RJ45)**	**2.5 Gbps + 3x1 Gbps**	**—**	**Wi-Fi 7**	**6.4 Gbps (BE6400)**	**2 + 4**
i4873-00	**2.5 Gbps WAN (RJ45)**	**2.5 Gbps + 3x1 Gbps**	**1**	**Wi-Fi 7**	**6.4 Gbps (BE6400)**	**2 + 4**

For more information and feature requests, contact our Sales department at sales@icotera.com.

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