

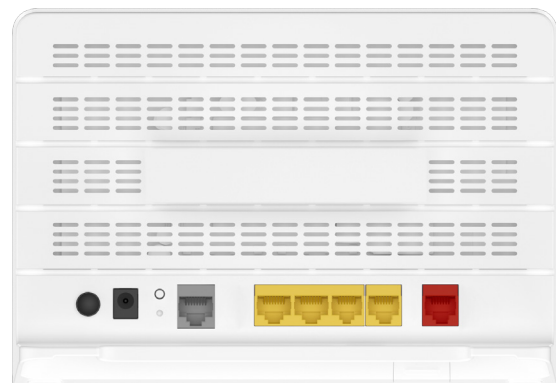
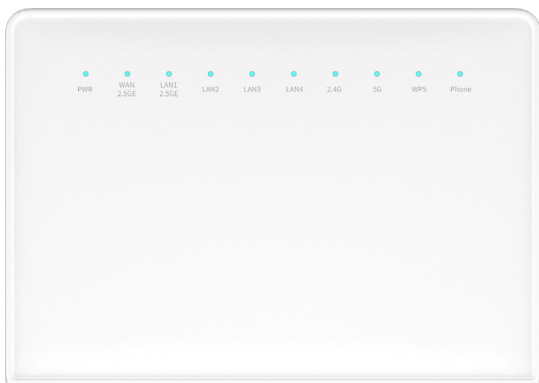
Wi-Fi 7 ETHERNET ROUTER

i4870

Residential Wi-Fi 7 Router

The Icotera i4870 dual-band Wi-Fi 7 router provides your customers with a data transfer speed of over 2 Gbps for both wireless and wired connections. This router features powerful internal antennas, making it a perfect solution for a home network setup.

- Wi-Fi 7 connectivity
- Up to 6.4 Gbps combined Wi-Fi link rate
- Freestanding or wall-mounted installation
- Optional VoIP support



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.

i4870 Residential Wi-Fi 7 Router

FEATURES

- 2 + 4 Wi-Fi 7 configuration with 2 spatial streams for the 2.4 GHz band and 4x5 streams for the 5 GHz band
- Non-blocking 1 Gbps architecture
- Wi-Fi link rate up to 6.4 Gbps (BE6400)
- Low power consumption
- Dual-core ARM Cortex-A55 1.2 GHz
- 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

Wi-Fi INTERFACES

- WMM for resilient video and voice delivery
- Authentication methods: WPA3 Personal, WPA3 Enhanced, Open, WPA2 Personal
- Up to 4 SSIDs
- Automatic channel selection
- Repeater mode
- Backwards compatible with previous Wi-Fi standards (6, 5, and 4)

Wi-Fi 7

- 802.11ax 2x2 2.4 GHz + 4x5 5 GHz
- Downlink MU-MIMO and OFDMA
- Support for unequal MCS
- Support for target wake time (TWT)
- **2.4 GHz band**
 - Bandwidth support: 20 MHz and 80 MHz
 - Modulation support: MCS 0-11
 - Up to 1024-QAM modulation
- **5 GHz band**
 - Bandwidth support: 20 MHz, 40 MHz, 80 MHz, 160 MHz, and 320 MHz
 - Modulation support: MCS 0-13
 - Up to 4096-QAM modulation

LAYER 2

- IEEE 802.1d transparent bridge
- 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

VoIP (optional)

- 1 optional POTS line
- 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 μ -law, G.722, and G.729
- Codec negotiation
- Modem or fax detection
- G.165 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)
- 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
 - LAN ports
 - Uplink
 - Wi-Fi 2.4 GHz band
 - Wi-Fi 5 GHz band
 - WPS
 - VoIP (optional)
- On/Off and WPS 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



Interface configurations

Model	Uplink	LAN	POTS	Wi-Fi	Peak Wi-Fi link rate	Radio chains
i4870-00	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.