Wi-Fi 6 ETHERNET ROUTER

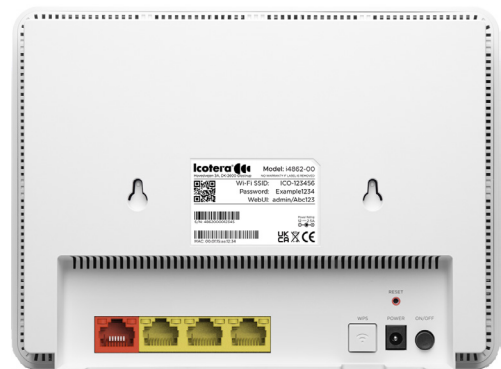## i4862
Residential Wi-Fi 6 Router

The Icotera i4862 residential ethernet router provides gigabit data transmission and supports the Wi-Fi 6 standard with powerful 5x5 and 2x2 Wi-Fi radio chains. The i4862 is designed for performance and durability, making it perfect for customers who want to cover their premises with a strong wireless network. With its sleek design, low power consumption, and comprehensive features, the i4862 router delivers exceptional performance and reliability.

- Designed to last long
- Modern Danish design
- Ease of installation

Outstanding design and coverage
The sleek Danish design complements any modern home, while five powerful 5 GHz radios provide effective long-range Wi-Fi coverage. When needed, users can easily extend their wireless network coverage and configure a secure local network with Icotera access points in just a few clicks.

Simple installation and management
The Icotera i4862 router offers full flexibility in installation options. Designed for simple and user-friendly installation, users can either mount the router on the wall or place it as a free-standing device. In either case, users can easily connect and manage cables, access buttons, and see the LED indicators.

Icotera

i4862 Residential Wi-Fi 6 Router

FEATURES

- Enterprise 2 + 5 Wi-Fi 6 configuration
- Non-blocking 1 Gbps architecture
- Wi-Fi link rate up to 5.99 Gbps (AX6000)
- Low power consumption
- Optional operator branding
- Optional customized firmware

NETWORK COMMUNICATION

WAN INTERFACE

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

LAN INTERFACE

- 3x 1 Gbps LAN
- Auto-negotiation for speed and duplex
- Integrated cable tester to detect the following metrics:
  - Short
  - Open
  - Impedance mismatch
  - Cable length

Wi-Fi INTERFACES

- Advanced WMM designed for long-range and resilient video and voice delivery
- Authentication methods:
  - Open
  - WPA2
  - WPA3-Personal
  - WPA3-Personal Transition Mode
- Up to 8 SSIDs
- MAC address filtering
- Beamforming
- 802.11v band steering and client roaming
- Neighbour scanning
- Advanced channel selection
- Software Tx power control
- Wireless client isolation
- Meshing — a built-in controller for Icotera i3560 access points

Wi-Fi 6

- 802.11ax 5x5 5 GHz + 2x2 2.4 GHz
- BW support: 20 MHz, 40 MHz, 80 MHz
- Modulation support: MCS 0-11
- Downlink MU-MIMO and OFDMA
- Up to 1024-QAM modulation
- Support for unequal MCS
- Support for LDPC, STBC
- Support for target wake time (TWT)

Wi-Fi 5

- 802.11ac Wave-2 5x5
- BW support: 20 MHz, 40 MHz, 80 MHz, 160 MHz
- MU-MIMO
- Support for LDPC, STBC
- Modulation support: MCS 0-11
- Up to 1024-QAM modulation

Wi-Fi 4

- 802.11b/g/n 2x2
- MIMO
- Modulation support: MCS 0-76

LAYER 2

- 16 bridge instances
- 64 byte forwarding at line rate
- Jumbo 9k packets
- IGMP v1/v2 snooping
- 802.1p marking
- VLAN support
- Transparent IPv6 forwarding
- 32k address entries
- Flexible L1 and L3 access control lists

LAYER 3

- Virtual interfaces
- Multiple WAN interfaces in one router
- 64 byte forwarding at line rate with routing/NAT
- IGMP v1/v2 proxy with fast-leave and monitoring
- Stateful IPv4 and IPv6 firewall
- Supports routing for IPv4 and IPv6
- IPv4:
  - SNAT, DNAT, DMZ
  - DNS proxy
  - DHCP client and server
- DS-Lite
- IPv6:
  - Prefix delegation
- PPPoE (termination)
- Tracking the connection status in the CLI
- 32k HW connection tracking
- RTSP stateful proxy
- Protocol helpers for: SIP, RTSP, FTP, TFTP, PPTP, L2TP, and IPSec
- Guest access

MANAGEMENT AND MONITORING

- Shared or separate IP interface for management
- Configurable web interface for end users:
  - PPPoE WAN
  - Wi-Fi
  - Guest network
  - LAN network
  - Port forwarding
  - NAT loopback
  - DMZ
  - DynDNS
  - Status and monitoring
- L1 and L3 filters for all local services
- SSHv2 with key authentication
- Zero-touch provisioning with DHCP and TR-069
- TR-069 with TLS:
  - TR-181 (Network)
- SNMP v1/v2
- Extensive debug possibilities
- Packet dumping
- All settings are stored locally in flash memory
- Dual bank flash memory with fail-safe firmware upgrading
- Hardware watchdog
- TR-143 for performance data and throughput statistics

OPERATIONAL SPECIFICATIONS

- DC 12 V input
- Operating temperature: 5°C – 45°C
- Storage temperature: -20°C – 85°C
- Humidity: 5% – 95% (noncondensing)

INCLUDED IN THE BOX

- Icotera i4862 router
- 12 V 3 A power supply unit
- Additional label with Wi-Fi credentials

PHYSICAL SPECIFICATIONS

CASING

- Size: 234 x 177 x 53 mm (W x H x D)
- Weight: 844 g
- Front LED indicators configurable by operators or end users.
  - Power or WAN status such as link or provisioning
  - Wi-Fi
- Status LED indicators for link, traffic, and duplex for each LAN port
- WPS button

ESG and SUSTAINABILITY

This product comes with an environmental product declaration (EPD) verified by EPD International, ensuring valid and transparent product life cycle data. For more information, see https://environdec.com/library/epd23886.

EPD INTERNATIONAL EPD SYSTEM

Climate (ESRS E1)
Product footprint (cradle-to-gate): 23,1 kg CO_2.

Pollution (ESRS E2)
The product and packaging comply with RoHS and Swedish chemical tax rate for electrical equipment and include less than 0,1% phosphorus, bromine, and chlorine compounds in the homogeneous material by weight. Available in up to 95% post-consumer recycled (PCR) materials.
Packaging is plastic-free, PE bag-free, and made of 86-92% recycled cardboard.

Social (ESRS S2)
Suppliers comply with the Icotera Supplier Code of Conduct: https://bit.ly/icotera-code.

Distribution (ESRS E1)
Transportation footprint (gate-to-customer): 0,6 kg CO_2.

Use
Power consumption complies with the European Ecodesign Directive 2009/125/EC.
Operational energy use footprint (total lifetime): 128,4 kg CO_2.
Power saving mode.

Refurbishment (ESRS E5)
Refurbishment service is available.

End of life (ESRS E5)
Disassemblable for recycling. WEEE producer and packaging responsibility is handled through Elretur and Emballageretur.

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Icotera CO2 reduction targets are approved by the Science Based Target initiative (SBTi).
By 2030, Icotera will reduce the scope 1 and 2 greenhouse gas (GHG) emissions by 42%.

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i4862 configuration options

1G WAN   1G LAN1   1G LAN2   1G LAN3   WPS   RESET/Power   On/Off

Interface configurations

Model	Uplink	LAN	Wi-Fi	Antennas
i4862-00	1 Gbps WAN (RJ45)	3x 1 Gbps LAN	Wi-Fi 6 (AX6000)	2x2 + 5x5

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