Wi-Fi 6 ETHERNET ROUTER

i4880 series

Residential Wi-Fi 6 Router

The i4880 Ethernet gateways take performance to the next level with a 2.5 Gbps IPv4 and IPv6 routing engine and premium Wi-Fi 6 with a configuration of 8x8 + 4x4. Special attention has been put into creating a beautiful, minimalistic, yet fully flexible design that fully matches the modern home. Full backward compatibility for WAN/LAN, VoIP, and Wi-Fi makes the i4880 the obvious choice for a high-end residential router for all serious service providers.

- Premium Wi-Fi 6 configuration
- Non-blocking 2.5 Gbps architecture
- Modern Scandinavian design
- Fully managed



Model: i4883

Flexible installation

The i4880 is designed for all types of installations, both wall-mount and free-standing. In any installation, the i4880 allows for practical cable management, easy access to user-configurable buttons and intuitive LEDs for easy troubleshooting.

Easy cable management

With all interfaces hidden practically on the back of the i4880, all cables can be managed in an easy way regardless of the installation method. Ports are coloured for intuitive installation for first-time users.



i4880 Residential Wi-Fi 6 Router

FEATURES

- Enterprise 8x8+4x4 Wi-Fi 6 configuration
- Non-blocking 2.5 Gbps architecture
- Wi-Fi link rate up to 9.8 Gbps
- Low power consumption
- Optional operator branding Customized firmware

NETWORK COMMUNICATION WAN INTERFACE

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

LAN INTERFACE

- 1x 2.5G LAN
- 2x1GLAN
- 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 longrange 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 8x8:8 5 GHz + 4x4:4 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

WAN

Model

i4882-00

i4883-00

• Support for target wake time (TWT)

i4880 configuration possibilities

Uplink

2.5G WAN (RJ45)

2.5G WAN (RJ45)

2.5G LAN

Gateway interface configurations

Wi-Fi 5

- 802.11ac Wave-2 8x8:8
 BW support: 20 MHz, 40 MHz, 80 MHz, 160 MHz
- MU-MIMO
 Support for LDPC, STBC
- Support for LDPC, STE
- Modulation support: MCS 0-11Up to 1024-QAM modulation
- Op to 1024-QAM modulati

Wi-Fi 4

- 802.11b/g/n 4x4:4 • MIMO
- Modulation support: MCS 0-76

LAYER 2

- 16 bridge instances
- 64 byte forwarding at line rate
- Jumbo 9k packetsIGMP v1/v2 snooping
- IGMP VI/V2 shoce
 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 router64 byte forwarding at line rate with
- routing/NATIGMP v1/v2 proxy with fast-leave and
- monitoringStateful 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
- TETP, PPTP, L2TP, and IPSec
- Guest access

USB

LAN

1x 2.5G LAN 2x 1G LAN

1x 2.5G LAN 2x 1G LAN

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

• 1 x USB 2.0 host port (reserved for future use)

USE

USB

1 x USB 2.0

1 x USB 2.0

WPS

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POTS

2×

www.icotera.com

VoIP (i4883)

• 2 separate POTS lines SIP (RFC3261)

OPERATIONAL

DC 12 V input

17.8 W

SPECIFICATIONS

• Power consumption maximum: 31.7 W

• Operating temperature: 5°C - 45°C

Storage temperature: -20°C - 85°C

INCLUDED IN THE BOX

• Icotera i4882 or i4883 gateway

• 12 V power supply unit

Ethernet cable

CASING

i4883

- VolP

- Wi-Fi

provisioning

• WPS button

nissions by 42%

Climate (ESRS E1)

Pollution (ESRS E2)

Social (ESRS S2)

Use

Distribution (ESRS E1)

Power saving mode

End of life (ESRS E5)

Refurbishment (ESRS E5)

Disassemblable for recyclingWEEE producer and packaging

• Humidity: 5% - 95% (noncondensing)

· Additional label with Wi-Fi credentials

PHYSICAL SPECIFICATIONS

• Size: 234 x 177 x 53 mm (W x H x D)

• Front LED indicators configurable by

Status LED indicators for link_traffic

ESG and SUSTAINABILITY

Product data aligns with the European Sustainability Reporting Standards

Product footprint (cradle-to-gate):

softeners in plastic parts Halogen-free printed circuit boards

Packaging: plastic-free, PE bag-free,

Suppliers comply with the Icotera Supplier Code of Conduct:

The CO_2 data on logistic solutions (ESRS E1) is available on request

and duplex for each LAN port

- Power or WAN status such as link or

• Weight: 844 g for i4882, 869 g for

operators or end users.

Power consumption in idle state:

notice

without

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Icotera assumes no responsibility for any inaccuracies in this document and reser

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- VoIP in IPv4 and IPv6 networksUp to 5 ringer equivalence numbers
- (REN) • Caller ID support (DTMF/FSK)
- DTMF signalling
- SIP INFO
- Inband
- Auto - RFC 2833
- CLIR
- Advanced dialplan

• Codecs:

- G.722

- G.729

- Called party (B-Number)
- manipulation
- Class 5 services:
- Forward all calls

- G.711A a-law

- G.711U µ-law

Codec negotiation

MONITORING

management

- PPPoE WAN

- Guest network

- Port forwarding

Status and monitoring

• Monitoring via telemetry streaming

• L1 and L3 filters for all local services

• Zero-touch provisioning with DHCP

All settings are stored locally in flash

• Dual bank flash memory with fail-safe

• L1 and L3 filters for all local services

• TR-143 for performance data and

Antennas

8x8 + 4x4

8x8 + 4x4

• SSHv2 with key authentication

• Extensive debug possibilities

- NAT loopback

- LAN network

i4883

users

- Wi-Fi

- DMZ

- DynDNS

(ICONS)

and TR-069

• SNMP v1/v2

memory

RESET O POWER ON/OFF

Wi-Fi

Wi-Fi 6

Wi-Fi 6

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• TR-069 with TLS:

• Packet dumping

TR-104 (VoIP)

- TR-181 (Network)

firmware upgrading

Hardware watchdog

throughput statistics

Modem or fax detection

• G.165 echo cancellation

MANAGEMENT AND

• Shared or separate IP interface for

• Management over IPv4 and IPv6 for

· Configurable web interface for end

Forward on busy
Forward on no answer
Call waiting