Wi-Fi 7 PRODUCTS



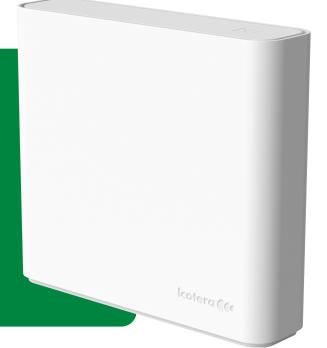
Residential Wi-Fi 7 routers and access points



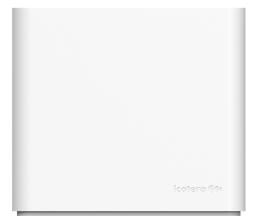


The Icotera Sága triband routers and access points provide superior Wi-Fi 7 connectivity making them an ideal choice for building powerful home mesh systems. Designed with a focus on three main pillars: security, performance, and longevity, the Icotera Sága combines advanced features with a minimalistic and beautiful Danish design. Advanced Wi-Fi and CPU power-saving techniques minimise power consumption and carbon footprint. Powered by prpIOS, the Sága provides a secure, standardised software platform that supports third-party container applications. You can choose a model with the 4+4+4, 2+4+2, or 2+4 radio chains, or an XGS-PON one-box solution.

- Triband Wi-Fi 7 platform
- Up to 21.5 Gbps combined Wi-Fi link rate
- Qualcomm Dragonwing[™] quad-core A53 SoC



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The Icotera Sága routers and access points support the Secure Boot technology to secure sensitive data and make the device run only on trusted software.

Designed to last a long time

Icotera manufactures Sága routers and access points with high-quality components and provides regular software updates.

Advanced technologies

The Sága routers and access points provide optional support for Bluetooth LE, Thread, and ZigBee. These low-power wireless mesh standards target embedded homes and help in building automation applications.

Get the most of Wi-Fi 7

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A powerful quad-core Qualcomm Dragonwing[™] CPU and 2 GB RAM ensure the top-level performance of the lcotera Sága. With up to three dedicated radios and up to 12 spatial streams, users can achieve an impressive 21.5 Gbps combined link rate. The Wi-Fi-certified EasyMesh and Easy Connect technologies simplify wireless network setup and configuration for end users, while prpIOS ensures high performance and stability.

The XGS-PON model becomes an ideal one-box solution for both fibre termination and creating a powerful local wireless network.

When your customers want to improve their gaming or streaming experience, provide them with an Icotera Sága router, designed to improve throughput, network performance, and data transfer rates.



Sága Residential Wi-Fi 7 products

FEATURES

- Tri-band Wi-Fi 7 networking platform with up to 12-stream configuration
 Simultaneous operation in the 6 GHz,
- 5 GHz, and 2.4 GHz spectrum bands • Low power consumption thanks to
- advanced power-saving techniques for Wi-Fi and CPU • Optional operator branding
- Optional operator branding
 Customised firmware based on prpIOS
- Support for running third-party
- container applications
- Quad-core ARM Cortex-A53 1.5 GHz
- Up to 2 GB RAM
- Up to 1 GB flash memory Bluetooth Low Energy (optional)
- Thread IEEE 802.15.4 (optional)
- Zigbee IEEE 802.15.4 (optional)

NETWORK COMMUNICATION WAN INTERFACE

- 10G WAN (RJ45) or 2.5G WAN (RJ45) or XGS-PON
- Energy-Efficient Ethernet (EEE)

LAN INTERFACE

• 1x 10G LAN (optional), 2x 2.5G LAN or 1x 2.5G LAN, 2x 1G LAN (optional)

Wi-Fi

- Advanced WMM designed for longrange and resilient video and voice delivery
- Authentication methods: WPA3 Personal, WPA3 Enhanced Open, WPA2 Personal
- Up to 8 SSIDs
- Up to 512 connected clients
- MAC address filtering
- Beamforming

10G WAN

Model

rX800-00-EU

rX505-00-EU

rX515-00-EU

r2501-00-EU

a2501-00-EU r2201-00-EU

Interface configurations

* - VoIP supported in selected models

- 802.11v band steering and client roaming
- Neighbour scanning
- Advanced channel selection
- EasyMesh R6 agent
- Software Tx power control
- Wireless client isolationMCS 15 for extended range (BPSK-
- DCM for Wi-Fi 7, DCM, ER_SU for Wi-Fi 6)
- Backwards compatible with previous Wi-Fi standards such as Wi-Fi 6E, Wi-Fi 6, Wi-Fi 5, and Wi-Fi 4

Icotera Sága configuration options

10G LAN 2.5G LAN1 2.5G LAN2 Phone1 Pho

Uplink

10G WAN (RJ45)

10G WAN (RJ45)

10G PON

2.5G WAN (RJ45)

Configurable 2.5G LAN port (RJ45)

2.5G WAN (RJ45)

Wi-Fi 7

- 802.11be 2x2 2.4 GHz + 4x4 5 GHz + 2x2 6 GHz
- Bandwidth support: 320 MHz,
- 240 MHz, 160 MHz, 40 MHz, 20 MHz
- Downlink MU-MIMO and OFDMA
 - Up to 4096-QAM modulation with full support for MCS 13 in all modes
 - Support for LDPC, STBCSupport for restricted target wake
- Support for restricted target wake time (R-TWT)
 Full support for multi-link multi-radio
- Full support for multi-link multi-radii MLO
 Statia preamble pupeturing
- Static preamble puncturing

LAYER 2

- 16 bridge instances
- 64 byte forwarding at line rate
- Jumbo 9k packets
- IGMP v1/v2/v3 snoopingMLD v1/v2
- 802.1p marking
- VLAN support
- Transparent IPv6 forwarding
- 32k address entries

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
- monitoringDSCP marking for untagged WAN
- interfaces • Stateful IPv4 and IPv6 firewall
- Supports routing for IPv4 and IPv6
- IPv4:
- SNAT, DNAT, DMZ
- DNS proxyDHCP client and server
- DRCP client a
- MAP-T
- IPv6
 - Prefix delegation
 - PPPoE (termination)
 - Tracking the connection status
 - Protocol helpers for SIP, RTSP, FTP, TFTP, PPTP, L2TP, and IPSec
 - Guest access

VoIP (optional)

- 2 separate POTS lines SIP (RFC3261)
 Up to 5 ringer equivalence numbers
- (REN) • Caller ID support (DTMF/FSK)

POWER

LAN

1x 10G, 2x 2.5G

1x 10G, 2x 2.5G

1x 10G, 2x 2.5G

1x 2.5G, 2x 1G

2x 2.5G

1x 2.5G, 2x 1G

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

ON/OFF

POTS

2*

2*

2*

2*

N/A

2*

- DTMF signalling
 - SIP INFO
 - Inband
 - Auto - RFC 2833

ne2 Reset

0 0

- CLIRSIP trunk
- Advanced dialplan
- Called party (B-Number)
 manipulation

PHYSICAL

LED indicators

provisioning

CASING

- VoIP

- Wi-Fi

indicators

WPS button

• DC 12 V input

OPERATIONAL

• Icotera Sága router

Ethernet cable

emissions by 42%

Climate (ESRS E1)

Pollution (ESRS E2)

Social (ESRS S2)

Use

Radio chains

4 + 4 + 4

2 + 4 + 2

2 + 4 + 2

2 + 4 + 2

2 + 4 + 2

2 + 4

Distribution (ESRS E1)

2009/125/EC

Refurbishment (ESRS E5)

End of life (ESRS E5)

12 V power supply unit

SPECIFICATIONS

SPECIFICATIONS

• Size: 196 x 175 x 55 mm or

164 x 156 x 40 mm (W x H x D)

- Power or WAN status such as link or

• Status LED indicators for link, traffic,

Automatically turning off the LED

• Operating temperature: 5°C - 45°C

• Storage temperature: -20°C - 85°C

· Additional label with credentials for

Wi-Fi networks and web interface

ESG and SUSTAINABILITY

Product data aligns with the Europear Sustainability Reporting Standards

BASED

Product CO₂ footprint (cradle-togate) data is available on request

Halogen-free printed circuit boards Available in up to 95% post-

Suppliers comply with the Icotera Supplier Code of Conduct: https://bit.ly/icotera-code

The CO₂ data on logistic solutions (ESRS E1) is available on request

WEEE producer and packaging

Elretur and Emballageretur

TARGETS

INCLUDED IN THE BOX

• Humidity: 5% - 95% (noncondensing)

and duplex for each LAN port

notice

revise this publication without

or otherwise

transfer,

modify,

for any inaccuracies in this document and reserves the right to change,

Icotera assumes no responsibility

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cotera updated the Sága datasheet in May 2025.

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- Class 5 services:
- Forward all calls - Forward on busy
- Forward on busy
 Forward on no answer
 Call waiting
- Codecs:
- G.711A a-law
- G.711U µ-law
- G.722 - G.729
- Codec negotiation
- Modem or fax detection
- G.165 echo cancellation

MANAGEMENT AND MONITORING

- Integrated Wi-Fi EasyMesh R6 controller
- Wi-Fi management logic running on the router in addition to third-party applications running in the cloud
- Easy product hardening to a secure configuration
- Support for sensitive data encryption

- Wi-Fi

- DM7

- Guest network

- Port forwarding

- Status and monitoring

• Standard monitoring telemetry

• SSHv2 with key authentication

• Standardised data models for

Extensive debug possibilities

• All settings are securely stored

• TR-143 for performance data and

• Dual bank flash memory with fail-safe

locally in flash memory

throughput diagnostics

Peak Wi-Fi link rate

21.5 Gbps

15.1 Gbps

15.1 Gbps

15.1 Gbps

15.1 Gbps

9.3 Gbps

firmware upgrading

Multilaver watchdog

WPS

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Wi-Fi

Wi-Fi 7

Wi-Fi 7

Wi-Fi 7

Wi-Fi 7

Wi-Fi 7

Wi-Fi 7

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configuration and monitoring

solutions (Bulk data collection, USP)

· L1 and L3 filters for all local services

• Zero-touch provisioning with DHCP,

CWMP (TR-069), and USP (TR-369)

- NAT loopback

- TR-104 (VoIP)

• Packet dumping

- TR-181 (Gateway)

- LAN network

- Secure Boot to ensure that the
- gateway boots using only trusted software
- Shared or separate IP interface for management
- Configurable web interface for end users: - PPPoE WAN