

## Home Mesh Router

### ion4xi\_HMR

10 Wi-Fi 6 Dual Band 2x2:2 Home Mesh Router with Integrated Antenna (5 dBi)



### Create your EasyMesh

- Scalable & flexible network that matches your needs.
- Mix & match any EasyMesh certified Access Point /Router to create your own home network.

### No Dead Zones

- Blanket coverage across entire house
- Seamless roaming across floors and rooms without any coverage breaks

### Network Management

- Plug and play with ease
- Manage your network with our mobile app "HFCL io Weave" available on Apple App Store and Google Play Store
- Central control with our cloud management solution, an ideal solution for ISPs and TSPs offering managed home Wi-Fi services

### Secure Home

- Create a separate network for your guests
- Choose what, when and how you want your children to consume content via parental control
- Stay protected with the latest WPA3 security
- Control which devices has access to the internet
- Monitor your network remotely
- Connect and control IoT devices

# TECHNICAL SPECIFICATIONS



## Wireless

<b>Wi-Fi Standards</b>	802.11a/b/g/n/ac/ac Wave 2/ax
<b>Radio Mode</b>	2x2 MU-MIMO with 2 spatial streams
<b>Radio Frequency Band</b>	Supports full 2.4 GHz & 5 GHz frequency bands
<b>Peak Data Rate</b>	Upto 3 Gbps (2402 Mbps for 5 GHz and 574 Mbps for 2.4 GHz)
<b>Max Transmit Power</b>	24 dBm for 2.4 GHz , 24 dBm for 5 GHz (will depend on country specific guidelines)
<b>Channel Size</b>	20/40/80/160 MHz
<b>Modulation Schemes</b>	Supports upto 1024 QAM
<b>User Support</b>	256 clients per router
<b>Power</b>	+12V DC Power Adaptor
<b>Max Power Consumption</b>	17 W (approx.)
<b>Interface</b>	1x10/100/1000/2500BASE-T Ethernet (WAN), 1x10/100/1000BASE-T Ethernet (LAN), DC Power jack
<b>Antenna</b>	Integrated Omnidirectional Patch Antennas
<b>Antenna Gain</b>	5 dBi for 5 GHz and 3.5 dBi for 2.4 GHz

## Certifications

- Wi-Fi Certified Passpoint 3.0
- Wi-Fi Certified EasyMesh
- Wi-Fi Certified WPA3
- Wi-Fi Certified 6
- Agile Multiband
- FCC Class B
- CE
- RoHS 3.0
- MTCTE

## High Level Features

- WAN Protocols: Static IPv4/v6, DHCP client v4/v6
- Band Steering, Load Balancing, Channel Bonding
- EasyMesh Support
- Auto Channel Selection
- Intelligent RF control plane for self-healing & self optimization
- Ability to simultaneously serve clients and monitor RF environment
- Radio Resource Management for power and channel
- Management: Mobile app based (for end user) & cloud based (for ISP/TSP)
- 8 SSIDs per radio (16 combined)
- QoS 802.11e WMM
- 802.11r- fast roaming and fast handover
- Bandwidth Shaping per SSID
- Maximal ratio combining (MRC)
- 802.11w- Protected Management Frames (PMF) support
- Advance Power Save (U APSD)

## Physical and Environmental

<b>Dimensions</b>	158 x 158 x 126 mm
<b>Weight</b>	0.7 kg
<b>Mounting</b>	Table top
<b>Visual Indicators</b>	Multicolor status LED
<b>Operating Temperature</b>	0° C to 40° C
<b>Storage Temperature</b>	-40° C to +70° C

## Security

- 802.1x / EAP, WPA2 (Personal, Enterprise), WPA3 (Personal, SAE, OWE, Enterprise, SuiteB), WPS, MAC, Radius based, EAP Type (EAP-TLS, EAP-TTLS, EAP-SIM, EAP-AKA)
- Protected Management Frames
- MAC address authentication
- Flexible guest access with device isolation
- Hidden SSID in beacons
- VPN pass-through
- Rogue access point detection and prevention (WIDS & WIPS)

## Safety & Other Compliances

- Safety standard as per IEC/EN 62368/IEC60950 & IEC 60215
- Electrostatic Discharge Immunity as per IEC 61000-4-2, Contact L2 and Air Discharge, L3 Level
- DC Surge Immunity as per IEC 61000-4-5, Level 2 (power port + signal port)
- Electrical Fast Transient/Burst Immunity as per IEC 61000-4-4, Level 2
- Radiated susceptibility as per IEC 61000-4-3 Level 2
- Conducted Susceptibility as per IEC 61000-4-6, Level 2
- Bump and vibration as per QM333
- Radiated Emission as per CISPR 32 Class B
- Conducted Emission as per CISPR 32 Class B (power port + signal port)
- Voltage Variation: AC- as per IEC 61000-4- 11 and DC- as per IEC 61000-4-29
- Health Test as per EN/IEC 62311

## Ordering Information

Model No.	Description
ion4xi_HMR	io Wi-Fi 6 Dual Band 2x2:2 Home Mesh Router with Integrated Antenna (5 dBi)

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