

# In-home connectivity products

Smart Mesh & Routers

29.11.2021





Products fixed-line

# High-End

Powered by HeimgardOS

Our devices are designed to achieve the best quality with the lowest failure rates in the market. The Eco Design complies with the latest European power saving standards, as well as with the highest consumer safety. The products can be fully customized. We work on feature rich firmware making your network an easy plug and play mode.

# Smart Router

## AX3600, Wi-Fi 6, Ethernet Gateway

Flexible and powerful ARM Cortex A53 CPU with NPU to provide the user with best-in-class user experience.

WiFi6 in both bands enables 4 x more Wi-Fi clients, without packet loss while achieving 40% higher speed than previous WiFi5 Gateways. Powered by HeimgardOS.



- ▶ 1 x 10/100/1000/2500 ETH WAN
- ▶ 4 x 10/100/1000 RJ45 LAN/WAN
- ▶ 4 x 4 @ 2.4Ghz 802.11ax
- ▶ 4 x 4 @ 5Ghz AX 802.11ax
- ▶ 1 x FxS VoIP
- ▶ 256Mb NAND and 512Mb RAM
- ▶ IoT (Zigbee)
- ▶ 1 x USB

Test units Feb 22

Volume units Mar 22

-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification compliant

# Smart Mesh

## AX1800, Wi-Fi 6 Mesh Node

Next generation WiFi technology on 2.4Ghz and 5.8Ghz band, also named as WiFi6. Excellent coverage in all corners of the home with our mesh solution. Powerful ARM Cortex A53 CPU with NPU to provide the user with best-in-class user experience. Powered by HeimgardOS.

- ▶ 2 x 10/100/1000 RJ45 WAN/LAN Ports
- ▶ 2 x 2 @ 2.4Ghz 802.11ax
- ▶ 2 x 2 @ 5Ghz 802.11ax
- ▶ 256Mb NAND and 256Mb RAM
- ▶ IoT (Zigbee)



-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification complaint

Test units Jan 22

Volume units Feb 22

# Fixed-Line Roadmap 2022-2023

## Heimgard Smart Router – Launch late 2022

- 🏠 Same platform, same HeimgardOS
- 🏠 Tri-band with WiFi6E AX7800
  - ▶ 2 x 2 @ 2.4Ghz 802.11ax
  - ▶ 3 x 3 @ 6Ghz 802.11ax
  - ▶ 4 x 4 @ 5Ghz 802.11ax



## Heimgard Smart Mesh – Launch late 2022

- 🏠 Same platform , same HeimgardOS
- 🏠 Tri-band with WiFi6E AX7800
  - ▶ 2 x 2 @ 2.4Ghz 802.11ax
  - ▶ 3 x 3 @ 6Ghz 802.11ax
  - ▶ 4 x 4 @ 5Ghz 802.11ax



Products Wireless Line

# High-End

Powered by HeimgardOS

Our devices are designed to achieve the best quality with the lowest failure rates in the market. The Eco Design complies with the latest European power saving standards, as well as with the highest consumer safety. The products can be fully customized. We work on feature rich firmware making your network an easy plug and play mode.

# Hub 4G PRO

Wi-Fi LTE router with VoLTE and smart home hub



The LTE router is equipped with a ARM Cortex A7 to provide the user with best-in-class user experience.

LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32
LTE-TDD	B38/B40/B41
2 x CA	B1+B1/B5/B8/B20/B28
	B3+B3/B5/B7/B8/B20/B28
	B7+B5/B7/B8/B20/B28
	B20+B32
	B38+B38
	B40+B40
	B41+B41
WCDMA	B1/B3/B5/B8

- ▶ 2 x 10/100/1000 RJ45 LAN
- ▶ 1 x FXS port and VoLTE
- ▶ 2 x 2 @ 2.4Ghz 802.11n
- ▶ 2 x 2 @ 5Ghz 802.11ac
- ▶ LTE 3G/4G (Cat6)
- ▶ 256Mb NAND and 256Mb RAM
- ▶ IoT (Zigbee)
- ▶ External antenna support

-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification compliant

Volume units NOW

# Hybrid Hub 4G

Wi-Fi LTE router with VoLTE and smart home hub

The LTE router is equipped with a MIPS 1Ghz dual-core to provide the user with best-in-class user experience.

LTE-FDD	B1/B3/B7/B8/B20/B28
LTE-TDD	B38/B40/B41
WCDMA	B1/B8
GSM/EDGE	B3/B8

- ▶ 1 x 10/100/1000 RJ45 WAN
- ▶ 3 x 10/100/1000 RJ45 LAN
- ▶ 2 x 2 @ 2.4Ghz 802.11n
- ▶ 2 x 2 @ 5Ghz 802.11ac
- ▶ 1 x FXS port and VoLTE
- ▶ LTE 3G/4G (Cat4)
- ▶ 256Mb NAND and 256Mb RAM
- ▶ IoT (Zigbee)



-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification compliant

Test units NOW

Volume units April 22

# Hybrid Hub 5G - T750

## Wi-Fi6E 5G router with VoLTE and smart home tri-band hub AX7800

Equipped with a powerful ARM Cortex A55 CPU that have hardware offload, combine with high-speed memory and flash the user experience is best in class. Powered by HeimgardOS.

5G NR	5G NR	3GPP Release 15 NSA/SA Operation Sub-6 Ghz
	NSA Bands	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	SA Bands	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	DL 4 x 4 MIMO	n1/n3/n7/n38/n40/n41/n77/n78
	UL 2 x 2 MIMO	n40/n41/n77/n78
LTE	LTE Category	Cat 19
	LTE Bands	B1/B3/B5/B7/B8/B20/B28/B32/B40/B41/B42/B43
	DL 4 x 4 MIMO	B1/B3/B7/B38/B40/B41/B42
UMTS	WCDMA Bands	B1/B5/B8

- ▶ 1 x 10/100/1000/WAN RJ45
- ▶ 4 x 10/100/1000 RJ45 LAN
- ▶ 1 x FXS port and VoLTE
- ▶ 2 x 2 @ 2.4Ghz 802.11ax
- ▶ 3 x 3 @ 6Ghz 802.11ax
- ▶ 4 x 4 @ 5Ghz 802.11ax
- ▶ 512Mb NAND and 1024Mb RAM
- ▶ IoT (Zigbee)



-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification compliant

Test units Oct 22

Volume units Dec 22

# ODU 5G – T750



Equipped with a powerful ARM Cortex A55 CPU that have hardware offload, combine with high-speed memory and flash the user experience is best in class. Powered by HeimgardOS.

5G NR	5G NR	3GPP Release 15 NSA/SA Operation Sub-6 Ghz
	NSA Bands	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	SA Bands	n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
	DL 4 x 4 MIMO	n1/n3/n7/n38/n40/n41/n77/n78
	UL 2 x 2 MIMO	n40/n41/n77/n78
LTE	LTE Category	Cat 19
	LTE Bands	B1/B3/B5/B7/B8/B20/B28/B32/B40/B41/B42/B43
	DL 4 x 4 MIMO	B1/B3/B7/B38/B40/B41/B42
UMTS	WCDMA Bands	B1/B5/B8

- ▶ 1 x 10/100/1000/WAN PoE RJ45
- ▶ 512Mb NAND and 512Mb RAM
- ▶ 1 x 2FF SIM (eSIM option)
- ▶ HeimgardOS
  - ▶ TR-x69/USP and MQTT
  - ▶ Bridge or Routed/DHCP
  - ▶ Firewall
  - ▶ VPN (SFH)
  - ▶ QoS

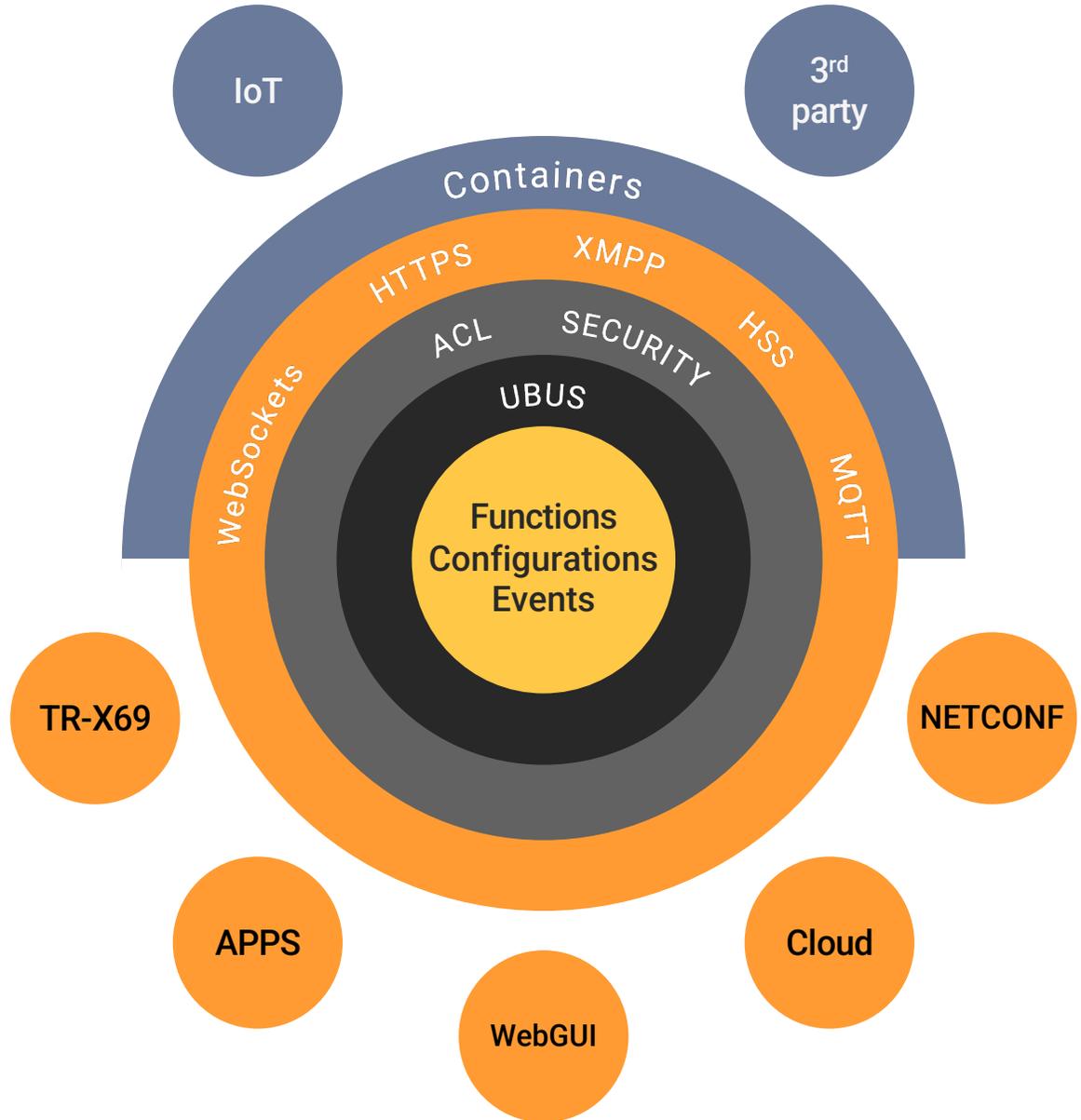
-  Home
-  Enterprise
-  Customisable
-  Networking capable
-  USB ports available
-  Cloud synchronization
-  Security
-  Cloud download capable
-  Streaming
-  Customer support
-  Environmental certification compliant

Test units July 22

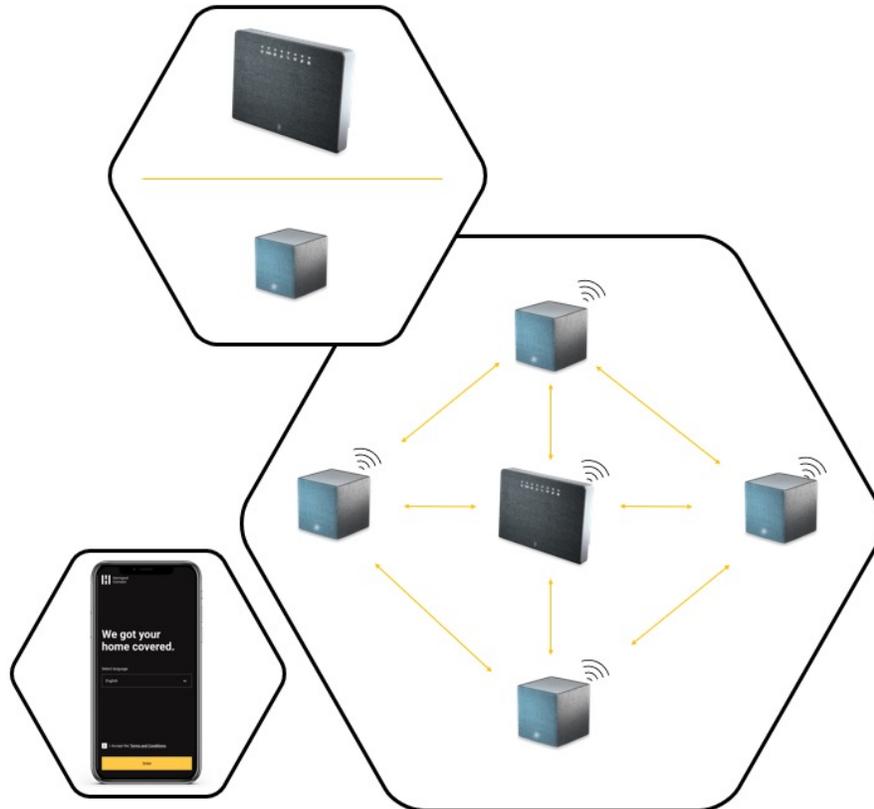
Volume units Sep 22

# HeimgardOS

The most advanced  
operation system for  
gateways and mesh  
solutions



# One common software across all your hardware needs



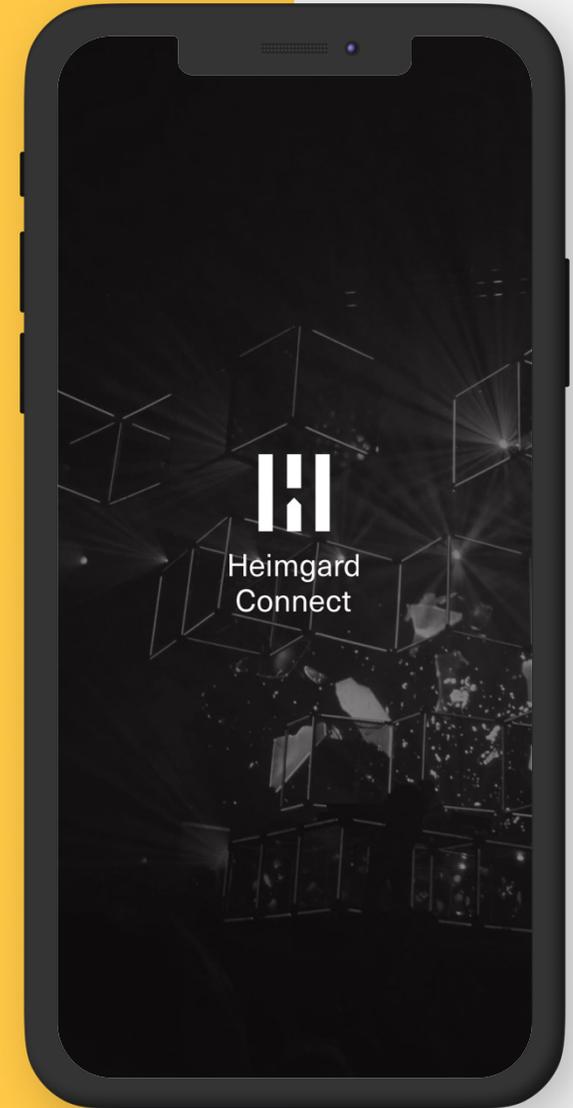
- Based on openWRT
  - Large deployment base
  - Mature codebase with over 10 years with stable core structure.
  - Security with latest kernel and patches
  - Industry standards
- One common platform through all network topologies.
- USP and MQTT dataflows
- End-to-End encryption for all communication including APP.
- Plug-and-play device pairing
- Surf From Home
- EasyMesh R2 (R4 Roadmap)
- MultiWAN (LTE failover, load balance or traffic sharing)
- OTA – Heimgard Cloud
  - Operator config
  - SW upgrade – Force or optional

# Heimgard Connect App

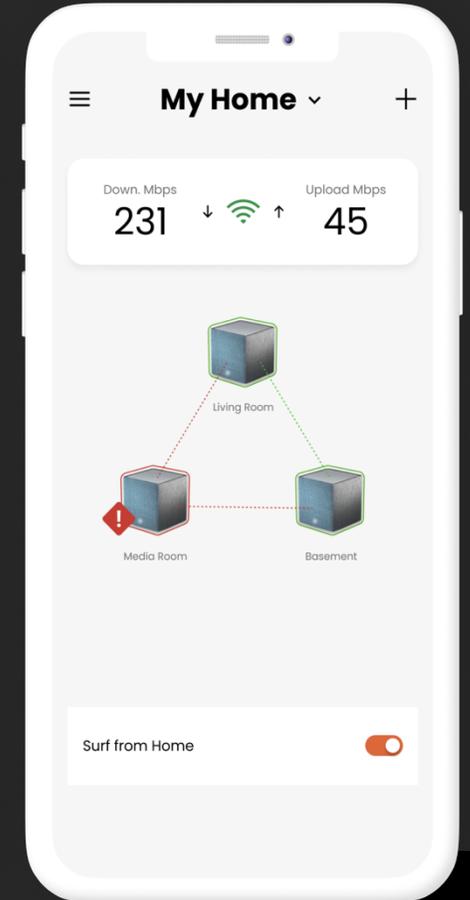
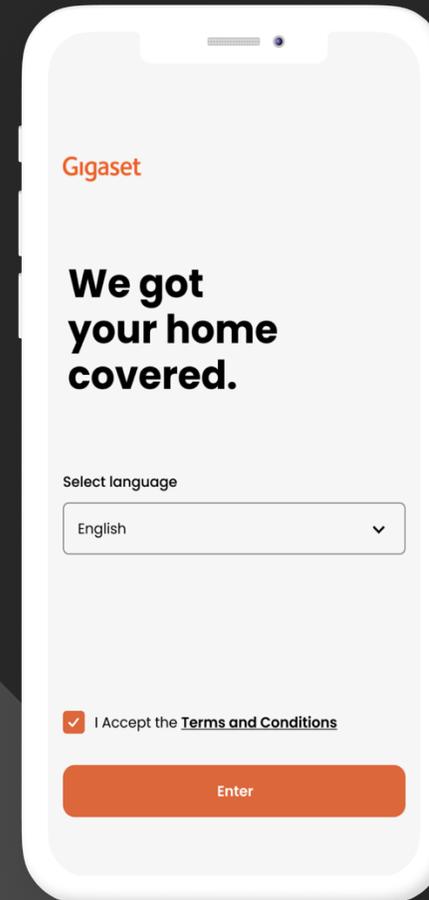
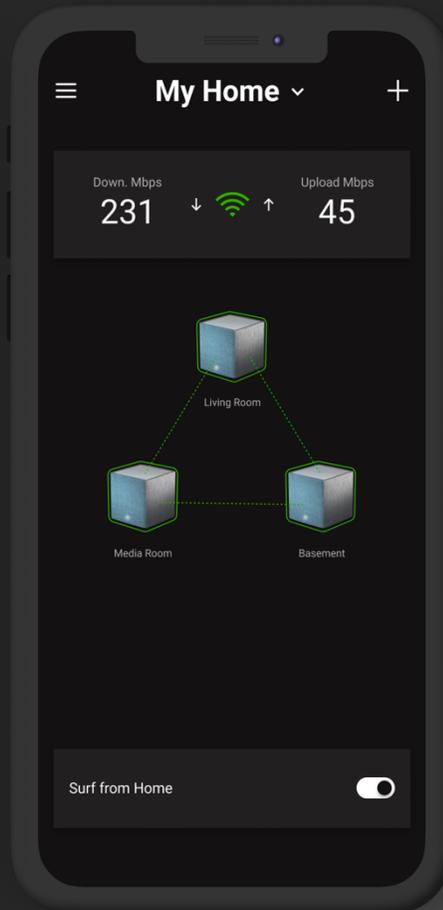
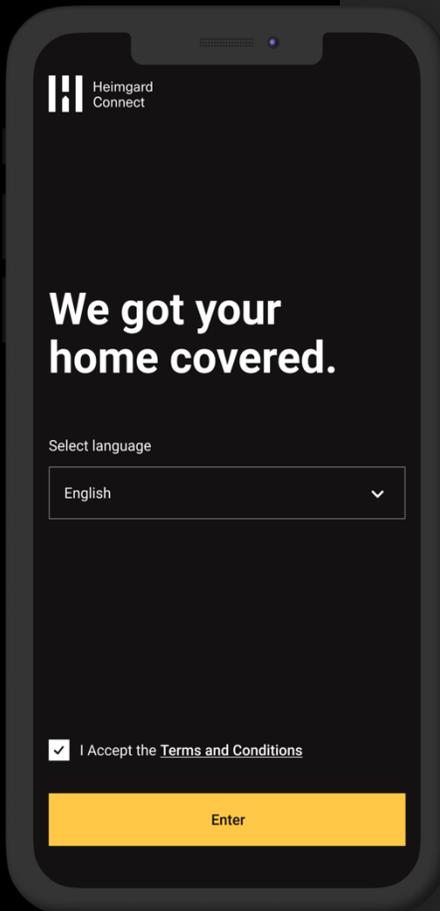
- 🏠 Manage Your Networks
  - ▶ Wi-Fi Setup
  - ▶ Client Information
  - ▶ Multiple locations support
  - ▶ Network Setup
- 🏠 Easy Pairing
  - ▶ Plug and Play pairing
  - ▶ Search for node in the network
  - ▶ Overview of all nodes
- 🏠 Parental Control
- 🏠 Surf from Home



Android and iOS  
compatible



# Heimgard Connect – designed to be white-labeled



Thank You