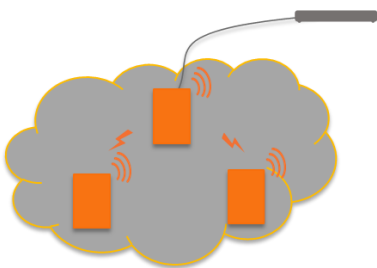


Tilgin IHD102

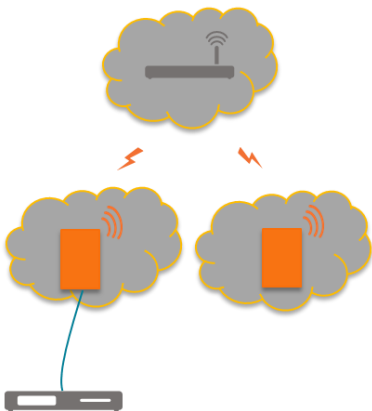
Wireless extender – for improved coverage



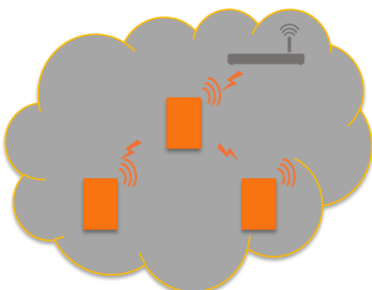
The IHD102 is the first product in a new class of products from Tilgin, the Intelligent Home Devices. The IHD102 is a new generation mesh product that offers excellent Wi-Fi coverage and throughput in the home.



IHD102 behind a legacy router



IHD102 working as a video bridge and Wi-Fi range extender



IHD102 forming a mesh network together with a compatible mesh router

In some cases even the best Wi-Fi solution built in to the gateway does not cover all parts of the home in the best possible way. This can be a problem in large homes, especially if the gateway is installed in a non optimal place in the home or in apartments with thick concrete walls.

The IHD102 is a solution for extending the Wi-Fi coverage in the home. The Wi-Fi network in the home is built by setting up multiple extenders as needed, connected to each other in a star or daisy chain fashion. The solution offers seamless handover between the nodes in the home for connected clients. This together with features such as band steering, optimal channel selection, load balancing, client steering and much more gives the ultimate Wi-Fi user experience in the home.

The solution is build around the latest 802.11ac standard supporting MU-MIMO. The solution has an advanced dual band radio solution, with two radios for clients and backhaul.

The solution is based on a pre standard version of the work ongoing within Wi-Fi alliance in this area. Compliance will be available via software updates as the standardization work proceeds.

The backhaul network can be built using wired Ethernet connection or using Wi-Fi. The former is suitable for maximum performance in modern homes and greenfield where there is already a cable infrastructure in place. The latter is suitable in any situation and installation. The only thing needed is a power outlet.

The extender can also be setup in a Video bridge mode for multicast streaming of video over Wi-Fi and then work as a Wi-Fi range extender.

The home mesh network is fully operator manageable from a TR-069 ACS. The solution can be software updated, status and statistic can be collected and the devices can be configured following the TR-069 standard.

IHD102 Model Configurations

Model	Memory		WAN	Home network							
	Flash (MBytes)	RAM (MBytes)		Copper Ethernet ports	Ethernet ports	USB Host ports	IoT and Smart Home	WLAN			
								SSID	WPS	2.4 GHz 802.11n	5 GHz 802.11ac
IHD102	128	256	1 x GE	1 x GE	-	-	4+4	Yes	MIMO 2x2 2 streams	MIMO 2x2 2 streams	

IHD102 Specification

LAN (wired)	Wireless	Regulatory Compliances
1 x 10/100/1000 Base-TX Connector: RJ45 Autoneg, Auto MDI/MDI-X	IEEE 802.11ac, 5 GHz – MIMO 2x2, 2 streams IEEE 802.11n, 2.4 GHz– MIMO 2x2, 2 streams	CE mark WEEE RoHS
WAN (wired)	IEEE 802.11e/WMM, QoS for voice and video WPS, Wireless protected setup with PIN and Push Button Internal antennas	Physical Specs
1 x 10/100/1000 Base-TX Connector: RJ45 Autoneg, Auto MDI/MDI-X		Dimension: 157 x 140 x 61 mm Weight: 0.3 kg
Management	Wi-Fi mesh	Operating temperature: 0 to 40°C/ 32 to 104F Non-operating temperature: -20 to 70°C/ -4 to 158F Operating humidity, RH, non-condensing: 0 - 90% Non-operating humidity, RH, non-condensing: 10 - 95%
TR-069 for software update, configuration, status. Local GUI for management by the subscriber LED indication for optimal placement of device Configuration cloning	Seamless handover, band steering, client steering Self organized network function Roadmap for Wi-Fi alliance compliance following the “Easy mesh” standard under development.	