

Tilgin IHD202

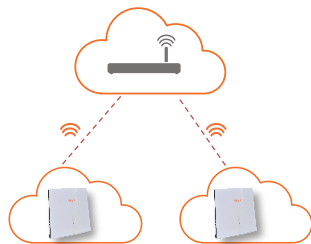
Wireless extender – for improved coverage



The IHD202 is a new generation product in the series of Tilgin, Intelligent Home Devices. The IHD202 is a Wi-Fi 6 based mesh product that offers excellent Wi-Fi coverage and throughput in the home.



IHD202 behind a legacy router



IHD202 working as a video bridge and Wi-Fi range extender



IHD202 forming a mesh network together with a compatible mesh router

In some cases even the best Wi-Fi solution built into 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 IHD202 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 built around the new Wi-Fi 6 standard. The Wi-Fi solution is fully backwards compatible with older Wi-Fi standards for a smooth transition to Wi-Fi 6. Wi-Fi 6 offers a number of benefits compared to previous generation Wi-Fi solutions, including low latency, improved power efficiency and better utilization of available radio spectrum. The technology uses beamforming to optimize Wi-Fi performance and coverage.

The product form mesh networks together mesh enabled Tilgin routers in subscribers' homes or can be used behind legacy routers.

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.

Tilgin IHD202 Wireless extender



IHD202 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
IHD202	128	512	1 x GE	1 x GE	-	-	4+4	Yes	MIMO 2x2 2 streams	MIMO 2x2 2 streams

IHD202 Specification

LAN (wired)	Wireless	Regulatory Compliances
1 x 10/100/1000 Base-TX Connector: RJ45 Autoneg, Auto MDI/MDI-X	IEEE 802.11a/n/ac/ax, 5 GHz – 2x2 MU-MIMO OFDMA IEEE 802.11b/g/n/ax, 2.4 GHz – 2x2 MU-MIMO OFDMA Link speed of 573 + 1200 Mbps	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	Wi-Fi mesh	Dimension: 157 x 140 x 61 mm Weight: 0.3 kg 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%
Management	Seamless handover, band steering, access point steering Self organized network function Roadmap for Wi-Fi alliance compliance following the "Easy mesh" standard under development.	
TR-069 for software update, configuration, status. Local GUI for management by the subscriber LED indication for optimal placement of device Configuration cloning		

Tilgin IHD202 is powered by Seliro ENSEMBLE Software



Seliro ENSEMBLE Software is common for and integrated to all Tilgin devices. The device software can be easily upgraded from standard to premium features by normal auto-provisioning. For further details about Seliro ENSEMBLE Software go to www.seliro.com