Tilgin HG2381

Ethernet Home Gateway

The HG2381 dual-band router is equipped with an 802.11ac WLAN interface, offering superior WLAN connectivity in the home as well as gigabit routing.

Highlights

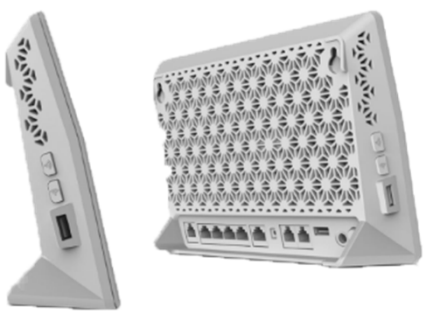
- Latest Wi-Fi standard support
  - 802.11ac
- Any client Wi-Fi beamforming
  - Implicit 2.4 GHz
- Direct link technology
  - Maximize Wi-Fi throughput
  - Idle CPU
- New generation DECT
  - Support for DECT / CAT-iq
  - ULE support for smart home
- HGA gateway software
  - Support for all HGA services
  - Full TR-069 support
  - Fail safe provisioning
  - Operator log
- Industry design
  - Designed to blend into the home

The HG2381 embraces the very latest Wi-Fi technology 802.11ac using a three stream Wi-Fi radio. The implementation uses 802.11ac technology with hardware acceleration also for the wireless traffic with *direct-link technology*. This gives superior Wi-Fi performance with full QoS, independent of the volume of Wi-Fi traffic. The wireless routing performance is up to 600 Mbps in the home (on 5 Ghz).

The new radio is fully backwards compatible with the 802.11n standard both at 2.4 and 5 GHz, meaning that today many devices can benefit from improved Wi-Fi with the new 5 GHz Wi-Fi interface.

The HG2381 uses *any-client beamforming* technology that improves coverage on a per client basis, particularly suitable for clients that are equipped with only one antenna, such as smart phones or tablets. Since beamforming also works for 802.11n it benefits all clients, new and old.

The HG2381 has an option for DECT/CAT-iq, allowing high definition voice and bringing speech quality to a new level. It also opens a seamless path to the smart home services with the support for ULE, Ultra-Low Energy.



Tilgin HG2381 Home Gateway Specifications

Model	Memory		WAN	VoIP		LAN and Home Networking						
									WLAN			
	Flash (MBytes)	RAM (MBytes)	Copper Ethernet ports	PSTN	CAT-iq	ULE	Ethernet ports	USB Host ports	SSID	WPS	2.4 GHz 802.11n	5 GHz 802.11ac
HG2381	128	128	1 x GE	2 x FXS	No		4 x GE	2	4+4	Yes	MIMO 2x2 2 streams	MIMO 3x3 3 streams
Supports 2000 Mbps accumulated routing utilized with the built-in router engine. Supports Line rate switching on all interfaces simultaneously.												

WAN interfaces

10/100/1000 Base-Tx

Autoneg, Auto MDI/MDI-X

Connector: RJ-45

LAN interfaces

10/100/1000 Base-Tx

Autoneg, Auto MDI/MDI-X

Connector: RJ-45

Voice interfaces

Ring voltage: min 45vrms

Connector: RJ-11

REN, Ring Equivalency Number per FXS: 5

CAT-iq: Versions 1.0, 2.0, 2.1 (prepared for ULE), 1880-1900 MHz

USB Interface

USB 2.0 Host

Green mode

Standby button for environmental friendly low power mode

Designed for CoC compliance

WLAN interfaces

IEEE 802.11n, 2.4GHz

MIMO 2x2, two spatial streams

300 Mbps link speed

4 SSID

Any-client beamforming

IEEE 802.11ac (5GHz)

MIMO 3x3, three spatial streams

1300 Mbps link speed - direct link technology

4 SSID

Supported 802.11ac options:

256 QAM, STBC, LDPC, MRC, DFS

IEEE 802.11i/ WEP, WPA, WPA2 per SSID

IEEE 802.11e/WMM, QoS for voice and video over WLAN

WPS Solutions, Wireless Protected Setup, with PIN and Push Button

Automatic channel bandwidth and optimum channel selection

Internal antennas

Switch

2048 MAC address table entries

Full 4K width VLAN support

Support for up to 64 simultaneous active VLAN

32 CoS queues

Traffic classification based on ingress port, 802.1q, 802.1p, DSCP, MAC address, IP protocol, IPv4/IPv6 address, IP packet length, UDP/TCP ports.

Stacked VLAN support

Ingress port and flow based policing

Programmable support for traffic monitoring

Support for jumbo frames

Regulatory Compliance

CE mark

WEEE

RoHS

Physical Specifications

Dimension 220x160x36

Weight: 0.65 Kg

Operating temperature: 0-40C/ 32-104F

Non-operating temperature: -20-60C/ -4-140F

Operating humidity, RH, non-condensing: 10-90%

Non-operating humidity, RH, non-condensing: 5-95%

External Power Supply: In: 100-240VAC, Out: 12VDC 2.5A

Ports