

# Tilgin HG2380

## Ethernet Home Gateways

This family of products in the HG2380 series is equipped with a 802.11ac WLAN interface, thus offering superior WLAN connectivity in the home, in addition to gigabit routing and all other services offered with HGA software.



### HG 2380 highlights

- Latest Wi-Fi standard support
  - 802.11ac
- Any client Wi-Fi beamforming
  - Implicit 2.4GHz
- 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 Home decor
  - Easy to brand for an operator

Tilgin's HG2380 embraces the very latest Wi-Fi technology 802.11ac using a three stream Wi-Fi radio. The implementation uses 802.11ac technology and has hardware acceleration also for the wireless traffic with *direct-link technology*. This gives superior Wi-Fi performance with full QoS, independent of amount of Wi-Fi traffic. The wireless routing performance is well beyond 600 Mbps in the home.

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 5GHz Wi-Fi interface.

The HG2380 uses an *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.

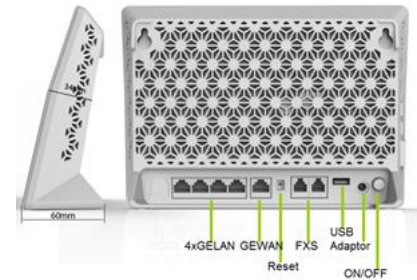
The HG2380 has an option for DECT/CAT-iq, allowing high definition voice and bring speech quality to a new level. It also opens a seamless path to the smart home services with the support for ULE, Ultra-Low Energy.

The HG2380 product family runs all the services offered in the Tilgin HGA and is prepared for all foreseeable future services. Powered by HGA, makes the HG2380 very flexible to configure, monitor and use for new services. See details in HGA datasheet.



# Tilgin HG2380 Home Gateways

With the HG2380 family, Tilgin continues the evolution of its products by adopting new technologies to guarantee a state of the art operator offering.



## HG2380 Model Configurations

Model	Memory		WAN	VoIP			LAN and Home Networking					
	Flash (MBytes)	RAM (MBytes)		PSTN	CAT-iq	ULE	Ethernet ports	USB Host ports	WLAN			
			Copper Ethernet 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	
HG2382				No	No							
HG2384				2 x FXS	Yes							

All products support 2000 Mbps accumulated routing utilized with the built-in router engine.  
All products support Line rate switching on all interfaces simultaneously.

WAN interfaces	WLAN interfaces	Regulatory Compliances
10/100/1000 Base-Tx Autoneg, Auto MDI/MDI-X Connector: RJ-45	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
LAN interfaces	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	Physical Specifications
10/100/1000 Base-Tx Autoneg, Auto MDI/MDI-X Connector: RJ-45	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	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
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		

## Tilgin HG2380 and Tilgin Home Application software



Tilgin Application Software is common for and integrated to all Tilgin Home Gateways. The application software can be easily upgraded from standard to premium features by normal auto-provisioning. For further details of HGA see separate datasheet at [www.tilginsolutions.com](http://www.tilginsolutions.com).

Full matrix of Tilgin hardware and HGA Software and Software modules compliance								
	HGA5xx	CAT-iq voice	ULE smart home	Wi-Fi hotspot	Storage	Secure access	3G – LTE WAN	SWEX
HG2381	√			√	√	√	√	√
HG2382	√			√	√	√	√	√
HG2384	√	√	√	√	√	√	√	√