

Tilgin HG1300 Family

Ethernet Home Gateways



Designed for Next Generation Access Networks, Tilgin HG1300 Family Ethernet Home Gateways delivers the wire speed routing, gigabits and advanced functionality to maximize the Online Home services and applications

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Tilgin's HG1300 is designed as an intelligent service node, enabling you to deliver additional real time applications into the home. Tilgin powerful HG1300 Family, including the HG1310 and HG1350 Home Gateway series helps you to deliver new revenue generating services from day one, all while maintaining a low operating cost. These platforms will continue to deliver new functionality for years to come.

The multi-port functionality of the HG1350 helps extend the connectivity of the online Home or Office, distributing managed Ethernet ports throughout the Home or Small office. Add to that the improved capacity and speed of 802.11n WLAN plus remotely managed multiple SSIDs and this allows you to offer new services, all while reducing operational costs and taking full advantage of our Home Gateway and Remote Management Solution.

The Gigabit Ethernet uplink of HG1350 improves the capacity and service offerings to the end user and lets you, as an operator, and the end user fully exploit the powerful routing performance of Tilgin Home Gateways.

The HG1310 is our optimized Ethernet based Home Gateway product offering full wire speed routing and is designed for Next Generation Networks, that requires capabilities for converged services within the Home.

Tilgin's HG1300 platform is powered by a dedicated CPU which achieves the highest possible voice quality available on the market today. Tilgin's HGA Voice solution supports a fully matured PSTN replacement strategy along with the possibility to migrate to a standard IMS.

Tilgin Home Gateway Application Software

Tilgin's HGA Software is the engine that delivers all Service Enablers and Remote Management functionality independent of the access technology and hardware configuration used. All HGA Software Drivers form a modular building system for you, as an operator, to combine in order to maximize your service offerings and revenue potential.

HGA Full Service Routing

Tilgin's HGA Full Service Routing Driver expands your IPTV service capabilities and provide additional operational savings through Any-Port-Any-Service function. Full Service Routing will reduce or eliminate start-up support calls when new or additional STB's are to be deployed within the Home.

TR-069 Remote Management

Beginning with zero-touch auto configuration, you can conveniently define and manage all services and network settings from your support center. Managing devices from a central location keep you in control, reduces your costs, and eliminates the provisioning hassles that can impede your business. Tilgin's long term involvement with the Broadband Forum provides you with the necessary resources to help your business operate using TR-069 based ACS and CPE solutions.

Fail Safe Provisioning

Tilgin's provisioning solution protects the device boot-up and software download session in case of a power interruption during the download session. This feature assures that the Home Gateway will be able to reconnect to the ACS once connectivity is restored. A Tilgin Home Gateway powered by Tilgin's HGA Software assures you that the device will not become a "brick".

Tilgin HG1300 Home Gateways

Tilgin Application Software is common to all Tilgin hardware delivery platforms.

Application software can be easily upgraded from standard to premium features by normal auto-provisioning.



HG1300 Model Configurations

Model	WAN		VoIP		LAN and Home networking				
	Copper Ethernet	PSTN ports	ISDN ports	Ethernet ports	USB ports	Routing	Switching	WLAN	
								SSIDs	WPS
HG1351	1000 Base Tx	2 FXS	-	7	2.0 Host	-	Wire speed	4	Yes
HG1358	1000 Base Tx	2 FXS	-	7	2.0 Host	-	Wire speed	-	-
HG1311	100 Base Tx	2 FXS	-	4	2.0 Host	Wire speed	Wire speed	4	Yes
HG1311i	100 Base Tx	2 FXS	1 BRI	4	2.0 Host	Wire speed	Wire speed	4	Yes

WAN interfaces	WLAN interfaces	Regular Compliances
Copper Ethernet WAN <ul style="list-style-type: none"> • 10/100/1000 Base-Tx (HG 1350) • 10/100 Base-Tx (HG 1310) • Autoneg, Auto MDI/MDI-X • Connector: RJ-45 	<ul style="list-style-type: none"> • IEEE 802.11e/WMM, QoS for voice and video over WLAN • WEP, WPA, WPA2 • Two WPS Solutions, Wireless Protected Setup, with PIN and Push Button 	<ul style="list-style-type: none"> • CE mark • FCC Part 15 • CSA International • WEEE • RoHS
LAN interfaces <ul style="list-style-type: none"> • 10/100 Base-Tx • Autoneg, Auto MDI/MDI-X • Connector: RJ-45 	HG1350: <ul style="list-style-type: none"> • IEEE 802.11n, 2.4GHz, 300Mbps • MIMO antenna Solution • One internal antenna • One External antenna, can be extended and put outside cabinet • Performance optimized use of internal/external antennas • Automatic channel bandwidth selection 	Physical Specs <ul style="list-style-type: none"> • Dimension 282x174x36 • 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% • HG1350: In: 100-240VAC, Out: 12VDC/2A • HG1310: In: 100,240VAC, Out: 12VDC/1.2A
Voice interfaces <ul style="list-style-type: none"> • Dedicated CPU for VoIP making Voice Application independent of any data load. <p>Analogue ports, FXS:</p> <ul style="list-style-type: none"> • Ring voltage: min 45vrms • Connector: RJ-11 • REN, Ring Equivalency Number per FXS: 5 <p>Digital ports, ISDN BRI:</p> <ul style="list-style-type: none"> • 2 ISDN NT connectors for phone and fax • Connector: RJ-45 • ISDN phantom power: 40 V nominal, max 4.5W • REN, Ring Equivalency Number per port: 5 	HG1310: <ul style="list-style-type: none"> • IEEE 802.11bg 	

Full matrix of Tilgin hardware and HGA Software compliance.

	HGA540	HGA550	HGA560	HGA570	HGA Storage	HGA Remote Access
Vood 300	Y	Y	-	-	-	-
HG321	Y	Y	Y	Y	-	Y
HG1100	Y	Y	Y	Y	-	Y
HG1210	Y	Y	Y	Y	Y	Y
HG1310	Y	Y	Y	Y	Y	Y
HG1350	Y	Y	Y	Y	Y	Y
HG1520	Y	Y	Y	Y	Y	Y
HG1550	Y	Y	Y	Y	Y	Y