# Tilgin HG350

## **Ethernet Home Gateways**

The Tilgin HG350 product family is a new generation of VoIP gateways. It is equipped with a legacy POTS port and a cordless base station using CAT-iq technology, ready to connect multiple cordless handsets. The solution also supports ULE, the newest smart home radio technology.



#### HG350 highlights

- Legacy POTS emulation
   Perfect emulation of legacy POTS telephony
- Smart home hub
   ULE as smart home radio technology
   Enable smart home services
- DECT / CAT-iq
   DECT/CAT-iq based cordless telephony
- GE WAN and GE LAN port
   Wireline bridged throughput
   Gigabit bidirectional routing
- HGA gateway software
   Legacy SIP and IMS support
   SIP/TLS and TR-104 issue 2 support
   Full CAT-iq 2.0 feature set
   TR-069 management
   Fail safe provisioning
   Operator log following TR-157

The HG350 product family is a range of VoIP terminal adapters suitable for PSTN replacement as well as green field deployments.

In addition to the standard PSTN emulation via the built in FXS port, there is also an option for a built in DECT/CAT-iq/ULE base station. This allow subscribers to connect legacy GAP compatible DECT phones as well as modern CAT-iq phones to the unit. With the Tilgin HGA software, the FXS port as well as the up to 6 DECT/CAT-iq connected handsets can get unique VoIP phone numbers associated.

The HG354/5 with the built in DECT/CAT-iq base station also supports ULE, the evolution of the DECT/CAT-iq radio technology into the connected home segment. ULE has significant advantages with its dedicated frequency band and low power devices where the batteries lasts for years.

With a software update supporting ULE, the HG354/5 will turn into a smart home hub that can connect and manage hundreds of connected home devices.

The product family mainly targets the ATA and smart home HUB market, but the units are in fact full blown routers supporting up to gigabit bidirectional routing, with hardware acceleration for routing, firewall and NAT services.

With its gigabit WAN and LAN ports and the support for wireline throughput for all packet sizes in a bridge setup, the units can be connected in front of the router in the home without blocking the up to gigabit internet service. This setup avoid possible problems with letting the VoIP services pass through any routers firewall in the home.

### Tilgin HG351/4 VoIP terminal adapter

The HG350 product series combine legacy services with state of the art technology and new services enabled



#### **HG350 Model Configurations**

Model	Memory		WAN	VolP		LAN
	Flash (MBytes)	RAM (Mbytes)	Copper Ethernet ports	PSTN	DECT / CAT-iq / ULE	Ethernet ports
HG351	128	128	1 x GE	1 x FXS	-	1 x GE
HG354	128	128	1 x GE	1 x FXS	1	1 x GE
HG355	128	128	1 x GE	-	1	1 x GE

The products offers up to 2000 Mbps routing utilized with a built-in router engine between WAN and LAN. The products support Line rate switching for all packet sizes between WAN and LAN.

Switch 2048 MAC address table entries	Green
2048 MAC address table entries	T
	The products are designed for CoC compliance.
Full 4K width VLAN support	Regulatory Compliances
Support for up to 64 simultaneous active VLAN	CE mark
32 CoS queues	WEEE
Traffic classification based on ingress port, 802.1q, 802.1p, DSCP,	RoHS
MAC address, IP protocol, IPv4/IPv6 address, IP packet length	Physical Specifications
UDP/TCP ports.	Dimension 180x130x60
	Weight: 0.255 kg
Stacked VLAN support	Operating temperature: 0-40C/ 32-104F
Ingress port and flow based policing	Non-operating temperature: -20-60C/ -4-140F
Programmable support for traffic monitoring	Operating humidity, RH, non-condensing: 10-90%
Support for jumbo frames	Non-operating humidity, RH, non-condensing: 5-95%
LEDs and button	External Power Supply: In: 100-240VAC, Out: 12VDC 1A
LEDs for Power, Internet, WAN, LAN, FXS, DECT	
Button for handset pairing, power on/off, factory reset	
	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  LEDs and button  LEDs for Power, Internet, WAN, LAN, FXS, DECT

#### Tilgin HG350 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.

Full matrix of Tilgin hardware and HGA Software and Software modules compliance									
	HGA5xx	CAT-iq voice	ULE smart home	Secure access	Open HGA				
HG351	V	V		V	V				
HG354	V	V	V	V	V				
HG355	V	V	V	V	V				