

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
- **Seliro Device Software Platform**
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 allows subscribers to connect legacy GAP compatible DECT phones as well as modern CAT-iq phones to the unit. With the Device Software Platform, 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 last 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 avoids possible problems with letting the VoIP services pass through any routers or firewalls 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	VoIP		LAN
	Flash (MBytes)	RAM (Mbytes)		PSTN	DECT / CAT-iq / ULE	
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.

WAN interface	Switch	Green
10/100/1000 Base-Tx Auto negotiation, 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	The products are designed for CoC compliance.
LAN interface	Traffic classification based on ingress port, 802.1q, 802.1p, DSCP, MAC address, IP protocol, IPv4/IPv6 address, IP packet length UDP/TCP ports.	Regulatory Compliances
10/100/1000 Base-Tx Auto negotiation, Auto MDI/MDI-X Connector: RJ-45	Stacked VLAN support Ingress port and flow based policing Programmable support for traffic monitoring Support for jumbo frames	CE mark WEEE RoHS
Voice interface	LEDs and button	Physical Specifications
Ring voltage: min 45 Vrms Connector: RJ-11 REN, Ring Equivalency Number : 5 Voice interfaces	LEDs for Power, Internet, WAN, LAN, FXS, DECT Button for handset pairing, power on/off , factory reset	Dimension 180x130x60 Weight: 0.255 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 1A
DECT/CAT-iq ULE (HG354)		
CAT-iq: Versions 1.0, 2.0, 2.1 ULE support 1880-1900 MHz		

Tilgin HG350 is powered by Seliro Device Software Platform



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

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