



## Genexis EG400

### EG400-Series

ARM based, high-end FTTH gateway



EG400 is a high-end ARM based residential gateway delivering true 4x4 ac WiFi performance. The EG400 has iopsysWRT inside. iopsysWRT is a modern modular operating system that supports all features required by high-end business critical gateway software.

With iopsysWRT, the service provider benefits from a proven software platform and is able to add modules based on openWRT standards independently at the same time.

#### Key features

- Broadcom ARM, 256MB Flash, 512MB RAM
- ETH and SFTP
- High sensitivity 802.11ac 4x4 or 802.11n 2x2
- 4x Gigabit Ethernet
- 1x USB 3.0 and 1x USB 2.0 port
- DECT telephony (optional)
- 2x FXS
- Wireless controller with band- and AP-steering
- IUP, TR-069, GUI, HTTP, TFTP management
- iopsys Cloud services
  - Helpdesk
  - Device management
  - Application management

#### VoIP and DECT support

The EG400 supports POTS telephony with a built-in SIP Voice-over-IP client. NNEXT to the VoIP capabilities, EG400 provides optional support for up to 64 ULE nodes and 8 DECT handsets.

#### CATV Support

The EG400 offers external fibertray with a CATV option.

#### High-speed USB

The USB 3.0 and the USB 2.0 ports enable the user to connect other devices (eg. printer, storage device) to the gateway.

#### WLAN

The WLAN access point supports up to 750Mbit/s TCP throughput wireless communication, which gives customers access to the network anywhere in the home without having to build a wired network. Simply connect your wireless devices via WPS to the EG400 and you are ready to surf the Internet.



# Product features and specifications

## Genesis EG400 Series

### General specifications

Dimensions (HxWxD)	34x200x183mm
Power supply	12 VDC, 2.5A
Power consumption	EU CoC
Operating temperature	0 - 45 °C
Storage temperature	-20 - +85 °C
Operating humidity (non-condensing)	5% ~ 95%
Storage humidity (non-condensing)	5% ~ 95%

### WAN interface

ETH and SFTP  
Gigabit Ethernet WAN  
100/1000 Base-T Ethernet and  
100/1000 Base-X SFP slot (optional)

### Protocols

Supports Point-to-Point Protocol (PPPoE)  
User authentication PAP, CHAP, MS-CHAP  
DHCP client, server and relay agent  
NAT / PAT – RFC1631 with support for:

- ALGs
- DNS relay
- IPv4 and IPv6

### Interfaces

4x 10/100/1000 Base-T Ethernet port  
2x FXS ports (voice)  
1x WAN port  
802.11n 2,4GHz WiFi with 2x2 antennas  
802.11ac 5GHz WiFi, with 4x4 antennas

### Button and USB

1x On/Off switch  
1x Reset button (recessed)  
1x WPS/Pair button  
1x DECT Pair button  
1x USB 2.0, 1x USB 3.0

### DECT support\*

Support for 8 handsets  
Support for 64 ULE nodes

### CATV support\*

Wavelength 1550 nm  
CATV-102  
Frequency range 47MHz~870MHz  
F-female connector for CATV RF output  
AGC (automatic gain control)  
Simplex SC / APC Connector  
Video RF signal output with 75 Ohm impedance  
Power ON / OFF control for GPIO.  
Weak signal alarm function

### Firewall

NAT, DMZ and ALGs  
Stateful Packet Inspection (SPI) with DOS protection - Ping of Death, SYN Flood LAND  
Protection against IP and MAC address spoofing  
UPnP NAT traversal and VPN / IPSec passthrough

### QoS

L2/L3 QoS, 802.1Q, ToS/Diffserv

### Wireless WMM

IPTV  
IGMP snooping/Proxy V1-3  
DHCP Option 43 APAS  
RTSP

### Wireless

802.1x, WEP, WPA, WPA2, TKIP, AES,  
802.11i  
Hidden SSID  
Multiple SSID  
WMM for advanced Quality of Service

### USB services

Printer server, Storage  
3G/4G WAN support  
Most USB-dongles from Huawei, ZTE, Qualcomm, Sierra Wireless supported

### ICE-Client

XMPP communication engine with application modules  
Enabling services like WiFi Joe, File Me, Home Watch & Home Control  
Pairing function to iopsys portal  
Linux, Android, iOS support  
HTTPS encrypted  
Data streaming using stream initiation profile  
NAT traversal

### Management

IUP (Inteno Universal Provisioning) DHCP option 43/66/67/121/128/224/225  
SNMP v2c MIB-II  
Embedded syslog; SNMP with DHCP options  
UPnP Internet Gateway Device (IGD)  
Management and configuration via HTTP  
Firmware upgrade using IUP/HTTP/TR-069  
Supports TR-069, TR-098/104 management and provisioning  
Hidden console port (RS-232) for maintenance

### Status LEDs

Status  
Broadband  
Internet  
Telephone status  
External  
Wifi status  
WPS  
DECT  
\*Optional

## Genesis EG400 product models

Model	LAN		Voice		WLAN 2x2	WLAN 4x4	USB
EG400	Ports	Speed (Mbps)	DECT		FXS ports	2.4 GHz	5.0 GHz
	4x	1000/100/10	8 handsets 64 ULE nodes		2x	11n	11ac
EG400-R1	4x	1000/100/10	N.A.		2x	11n	11ac
EG400 Fibertray	Fiber tray and wallmount with CATV option.						
CATV-302-V3	1x SC/APC con, 1x F-con RF Out, 2x Low pass, RF filter, AGC, 47-1000 MHz, -2 to -10 dB (option for EG400 fibertray)						

Note: Not every listed feature will be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice.