

Ethernet based OTT Gateway

CG300 is powered by iopsys. iopsys is an open source based software platform for embedded devices developed by Inteno. iopsys key components include CPE software, packet engine, SDK and a cloud based application portal.

CG300 is more than a traditional gateway; it creates new revenue streams by enabling operators to delivered tailored services to their end-customers. Several applications developed by inteno or partners are available today for iOS and Android devices.



Features

Service Delivery enabler for home automation applications

Can be installed in an existing infrastructure without upgrading hardware

Excellent WiFi performance with 802.11ac; better throughput and coverage

WPS (Wi-Fi Protected Setup) for Easy Setup

Supports most modern home automation standards such as Zigbee, Z-Wave and DECT ULE

Possibility to add Giga bytes of storage using USB or Micro SD card

Included



Optional



Specifications

Hardware

CG300 is equipped with an elegant touch based interface that detects the end-users hand with its proximity sensor. It has one GbE WAN, one GbE LAN, dual concurrent 802.11n 2.4 and 802.11ac 5GHz WiFi (5GHz optional), 1xUSB 2.0, 1x micro SD card slot for storage. DECT for voice and automation (ULE) and an optional adapter board for Zigbee, Z-Wave or Bluetooth.

General

Touch based interface with proximity
Based on a dual core MIPS processor
128MB DDR3 RAM and NAND Flash
Gigabit Ethernet WAN port
Gigabit Ethernet LAN port
One USB host 2.0 port.
Integrated 802.11n 2.4GHz WiFi, MIMO 2x2.
Integrated 802.11ac 5GHz WiFi, MIMO 3x3.
DECT and DECT ULE
Micro SD card slot for storage
Adapter board slot for Zigbee,
Z-Wave or Bluetooth.

LAN Interfaces

One 10/100/1000 Base-T Ethernet port
Integrated 802.11n 2.4GHz WiFi Access
with internal 2x2 antennas
Integrated 802.11ac 5GHz WiFi Access
with internal 3x3 antennas

WAN Interface

One 10/100/1000 Base-T Ethernet port

USB Interface

1x 1A USB 2.0

DECT

Support for 6 handsets
Support for 64 ULE nodes

Micro SD

Supports up to 256GB storage
Can be used for storage
and/or device file system

Power supply

12V DC 2A

LED and buttons

i-panel touch panel with proximity function
WiFi On/Off, WPS, DECT pairing.

Operation

Operation Temperature: 0°C ~ 45°C
Operation Humidity: 5% ~ 95%
(non-condensing)
Storage Temperature: -20°C ~ +85°C
Storage Humidity: 5% ~ 95%
(non-condensing) Power
Power consumption: compliant to EU CoC

Physical Dimensions

(Preliminary) 125 x 125 x 30 (W x D x H)

Software

Network services

Supports Point-to-Point Protocol (PPPoE) and user authentication via PAP, CHAP or MS-CHAP
DHCP client, server and relay agent
NAT / PAT – RFC1631 with support for extensive ALGs
DNS relay
IPv4 and IPv6

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 pass-through

QoS

L2/L3 QoS, 802.1Q, ToS/Diffserv
Wireless WMM

IPTV

IGMP snooping/Proxy V1-3
DHCP Option 43 APAS, (Any Port Any Service)
RTSP

Wireless

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

USB services

Printer server
Storage
Serial services (Z-Wave/Zigbee)
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

Voice Services

Supports voice CODECs like G.711 alaw/ulaw,
G.726, G.729A, G.722, BV16, ILBC etc
G.168 line echo cancellation
with programmable tail
Adaptive jitter buffer, packet loss concealment
(PLC), voice activity detection (VAD), comfort
noise generation (CNG) and Caller ID
DTMF tone detection and generation
Supports SIP (RFC3261, 3263, 3264),
SDP (RFC2327,3264,4566)
using TLS, TCP or UDP transport,
SIP Session timers (RFC 4028)
Supports RTP, SRTP

Supports SIP URL
and telephone E.164 addressing
Supports in-band DTMF tone
sending/ receiving and out-band
DTMF signaling with RTP, as per RFC2833
SIP b2bua with support for local
and remote SIP registrations

DECT

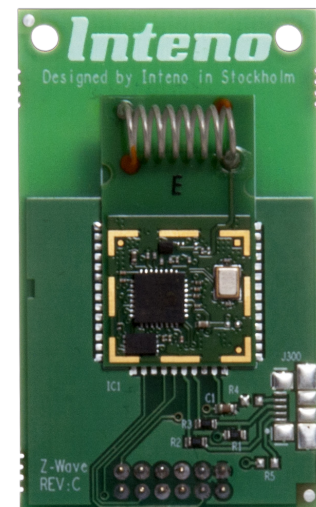
GAP and CAT-iq handset support
CAT-iq 2.0 functionality
HD voice support
ULE for smart home connectivity

Management

IUP (Inteno Universal Provisioning) DHCP
option 43/66/67/121/128
SNMP v2c/3 MIB-II
Embedded syslog; SNMP with DHCP options
UPnP Internet Gateway Device (IGD) compliance
Management and configuration via Web / HTTP
Firmware upgrade using
IUP/ HTTP / TFTP / TR-069
Supports TR-069, TR-098/104
management and provisioning
One hidden console port (RS-232)
for maintenance

Adapter board

Support for Z-Wave
Support for Zigbee
Support for Bluetooth



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.

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