

# CG314

Dibsys DOCSIS 3.0 Cable Modem



DOCSIS system include CMTS (Headend cable network ) and CM (user end). The main function of DOCSIS Cable Modem system is transparently transmitting IP packets between the front end and the user end.

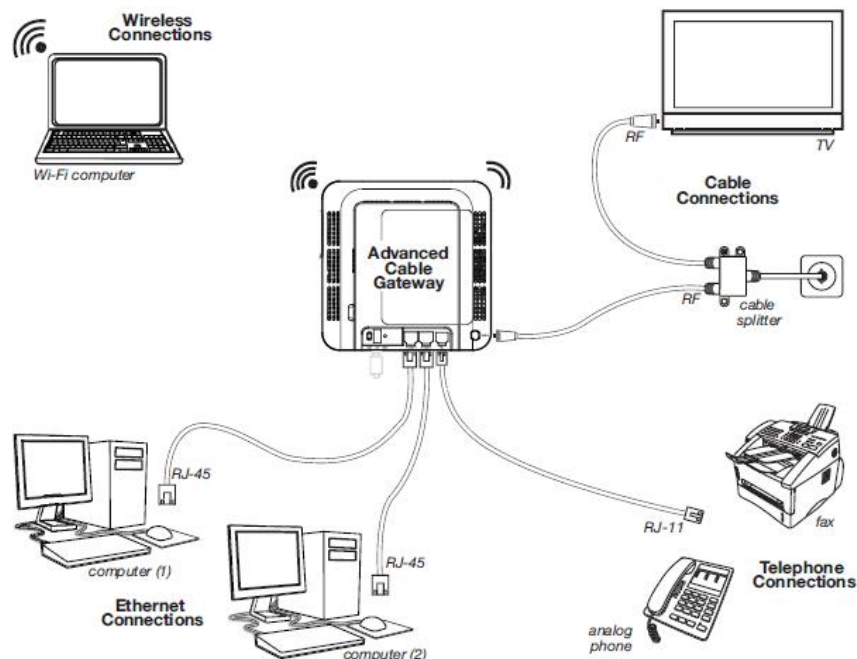
The series are designed with state-of-the-art DOCSIS/EuroDOCSIS 3.0 8\*4 channel bonding technology, as well as backward compatible to all existing DOCSIS 2.0/1.1/1.0 head-end equipment under Multiple Service Operator networks. DIBSYS cable modem provides a cost-effective solution which delivers high-speed and bi-directional data services.

The series product cover from low-end two/four Giga Ethernet port model to high-end with integrated optional Wi-Fi feature, DIBSYS offer a one-stop solution to satisfy customers all kinds of demands. It not only play as cable modem feature, some models with built in Wi-Fi Router function are even capable to work as Residential Gateway in your home or small office and offer excellent bandwidth to all your Internet-capable devices.

## Features

- DOCSIS/EURODOCSIS 3.0 Standard Compliant, compatible with Euro Docsis2.0/1.0/1.1 standard;
- Broadcom 33838M as main chipset;
- BPI/BPI+ supported
- Software upgrade by HFC network;
- Support connected up to 128 CPE devices;
- Supports up to 8 downstream and 4 upstream channels bonding;
- Full Band Capture (FBC), DS frequency shouldn't have to be adjacent;
- Hardware packet processing accelerator, low CPU consuming, high packet throughput;
- High speed Internet via 2/4 Ports Giga Ethernet Connector with auto-negotiation MDIX functions;
- SNMP v1/2C/3 and TR069
- Supports baseline privacy encryption (BPI/BPI+)
- High performance 802.11n 2.4GHz 2x2 optional

## Main Application



## TECHNICAL SPECIFICATIONS

### Hardware Interface

RF Interface	F type female 75ohm connector port
Eth Interface	RJ-45 connector; 2/4 Ports Giga Ethernet port
Button	One Software Reset Button for CM; One WPS Button
WPS Button	WPS for WiFi
DC Jack	+12V IN

### Docsis Standard Support

DOCSIS/EURO-DOCSIS 3.0 Standard Compliant, compatible with Euro Docsis2.0/1.0/1.1 standard

### Downstream /Receiver

Demodulation	QAM 64/256
Frequency Range	88-1002 MHz
Bonded Channels	Up to 8 Channel Bonding
Bandwidth	8MHz
Data Rate	Up to 400Mbps by 8 D/S Channel Bonding
Return Loss	<-6 dB for 88 to 1002MHz
Input Impedance	75 OHM
Receiving Level Range	American Docsis : -15dBmV to +15dBmV Euro Docsis : -17 to +13dBmV (64QAM) -13 to +17dBmV (256QAM)

### Upstream/Transmitter

Bonded Channels	Up to 4 Channel Bonding
<b>Modulation Type</b>	
TDMA	QPSK,8QAM,16QAM,32QAM,64QAM
S-CDMA	QPSK,8QAM,16QAM,32QAM,64QAM,128QAM
Frequency Range	5 to 65MHz
Data Rate	Up to 108 Mbps by 4 U/S Channel Bonding
<b>RF Output Level</b>	
TDMA (32/64 QAM)	+17 ~ +57dBmV
TDMA (8/16 QAM)	+17 ~ +58dBmV
TDMA (QPSK)	+17 ~ +61dBmV
S-CDMA	+17 ~ +56dBmV
TX Frequency Error	<+/-15 ppm
Return Loss	<= -6 dB for 5 to 65MHz
Input Impedance	75 OHM

### WiFi (11n 2.4G 2x2) Optional

Wireless Standard	IEEE 802.11 b/g/n/ac
Frequency	2.4 GHz and 5 GHz Dual Band. 2.412 ~ 2.484GHz 5.15 ~ 5.35 GHz; 5.46 ~ 5.72 GHz; 5.725 ~ 5.825 GHz
Signal Rate	300Mbps (11n); 867Mbps (11ac)
Encryption	WEP, WPA/WPA-PSK, WPA2/WPA2-PSK
Max No. of SSID	8
Transmission Power	>+15dBm @ 11n, 20M, MCS7
Receiving Sensitivity	ANT0/1:11Mbps -86dBm@8%; 54Mbps -73dBm@10%; 130Mbps -69dBm@10%
Antenna	External Antenna x1 + Internal Antenna x1

### Networking

Network protocol	IP / TCP / UDP / ARP / ICMP / DHCP / TFTP / SNMP / HTTP / TR069 / VPN (L2 and L3)
Routing	DNS / DHCP server / RIP I&II
Internet Sharing	NAT / NAPT / DHCP server / DNS
SNMP version	SNMP v1/v2/v3
DHCP server	Built-in DHCP server to distribute IP address to CPE connected to Cable Modem through Eth port and WiFi
DCHP client	Cable Modem automatically gets IP & DNS server address from MSO DHCP server

### Environment

Operation temperature	-10 to 45°C
Storage temperature	-20 ~ 55°C
Operating Humidity	95% non - condensing

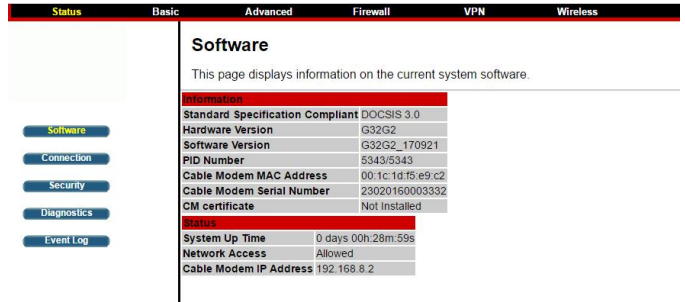
Dimensions (L x W x H)	215mm x 160mm x 45mm
Power Consumption	< 18W (Max. System Loading)

### Ordering Information

CG302	2*GE
CG312	2*GE+2.4G WIFI
CG314	4*GE+2.4G WIFI

### GUIs

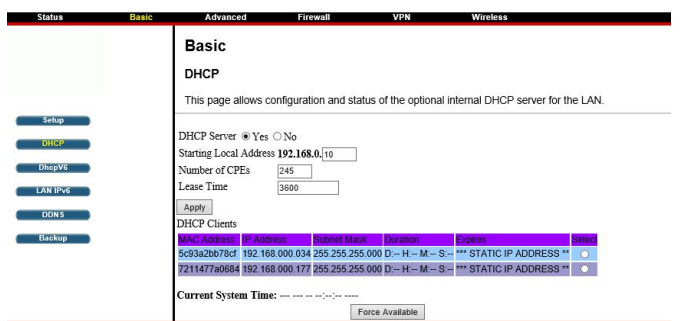
#### Status



#### Wireless



#### Basic DHCP



#### Setup

