

## CL-CM01 CL-CM02

Name: CL-CM01 Cable modem master device  
CL-CM02 Cable modem slave device (Cable Modem)  
Ethernet and TV over Cable



\*Cable modem master device

\*Cable Modem

### Overview:

This solution is based on the original HFC connectivity without affecting the present CATV operating. The solution adopts the latest Modulation technology to consolidate Ethernet and CATV signals to transmit and complete the triple play: voice, video and data over a single coaxial cable. The solution can use less reconstructing cost and smaller project job to change the original unidirectional CATV network into a bi-directional and multi -service broadband network platform. It is unnecessary to reconstruct the original CATV network. It possesses good adaptability and flexible connectivity and brings a brand-new concept for radio & TV system.

### Feature:

1. Developed from the integrated circuit with our own property right.
2. Able to send and receive Ethernet and CATV signals over coaxial - cable without affecting sending and receiving of CATV signal
3. Data rate up to above 45M on the Master. The Master can connect 64 units of the Salves at most.
4. Multi slaves can share bandwidth of the Master. This means the bandwidth can be configured randomly.
5. The bridge can extend transmission distance of CATV signal. Can connect all kinds of CATV signal amplifier to realize bi-direction transmission.

### Specification:

1. Power  
AC Input: 100~240V                      DC Input: -48V  
Power Consumption: ≤3W
2. RF Channel frequency 2~30MHZ  
Output Power 30~55dB  
Receive Sensitivity -50dBm  
Connector F type Female socket (metric system)  
Output impedance 75 Ω  
Modulation mode APSK BPSK QPSK QAM auto-sensing  
Data rate 200Mbps

- Throughput rate 50Mbps
- 3. Ethernet Connector RJ-45
  - Standard IEEE802.3, IEEE802.3af, 10/100Base-T
  - Smart bit 60K~1522K
- 4. Environment
  - Operating Temp.  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
  - Size Master: 191mm×263mm×76mm Slave: 140mm×106mm×38mm
  - Power consumption <10W
  - Relative Humidity Less than 95%
  - Gas pressure 70kpa~106kpa
  - no causticity gas, no dust, no magnetic field disturb
  - In the field, there is no filter noise problems . when working at  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ , no hang.

Application:

Diagram 1

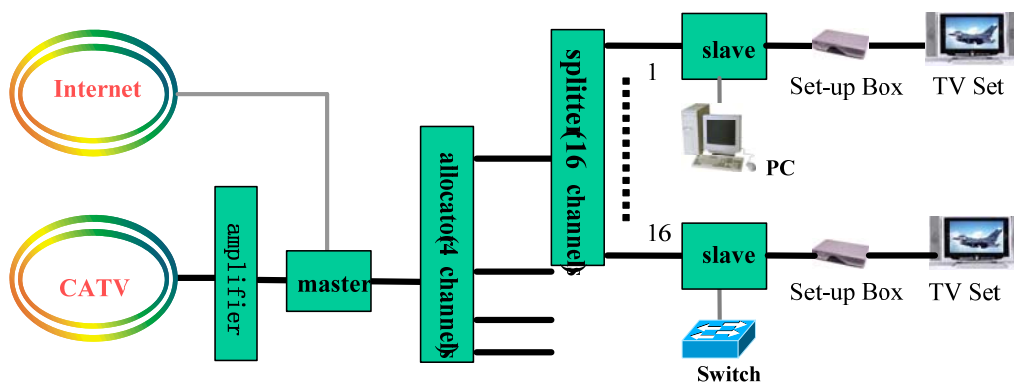


Diagram 2: An amplifier is connected in the connectivity diagram as follows:

