

Cable EMTA CLI-5320-3 / CLI-5330-3 (Euro-)DOCSIS 3.0

Broadband



Surf the internet, do emails and run multimedia at a multiple speed of a common cable connection.



Compliant and tested with most major VoIP Softswitch vendors' Call Management System. Reuse of existing analogue phones.

The CLI-5320/5330-3 is especially designed to comply to the (Euro-)DOCSIS 3.0 standard. It can adopt dynamic bandwidth adjustment by providing various sets of downstream and upstream combination up to cable plant requirement, such as 4 D/S with 4 U/S or 8 D/S with 4 U/S...etc.

The CLI-5320/5330-3 is a Voice over IP EMTA which allows you to implement your VoIP phone calls directly through the Cable Operators Broadband Network service based on Packet-Cable1.5 and (Euro-)DOCSIS 3.0 compliant specification.

Because of the MGCP/SIP capability the CLI-5320/5330-3 integrates smoothly into the operator's telephony infrastructure. The voice quality is assured by hardware based Quality of Service (QoS), voice compression (common voice Codecs G.711, G.729A, G.723.1 and more), echo cancellation, dynamic latency (jitter) buffers, silence suppression, and comfort noise generation.

Physical Interface

Interfaces

- F-type female 75 Ω connector
- RJ-45 connectors 10/100/1000 GbE
- Two RJ-11 connectors for FxS
- USB 2.0 device connector (CLI-5330-3 only)
- Power jack for 12V DC input

Compliant Standards

- DOCSIS/EURODOCSIS 1.0/1.1/2.0/3.0
- PacketCable 1.0/1.1/1.5

Downstream (Receiver)

- Demodulation 8 Downstream with up to 1024 QAM
- Data Rate
 - 30Mbps (64QAM), 43Mbps (256QAM) / DOCSIS
 - 41Mbps (64QAM), 55Mbps (256QAM) / EURODOCSIS
- Up to 320 Mbps by 8 channels bonding
- Frequency Range
 - 88MHz to 860MHz / DOCSIS
 - 108 MHz to 862 MHz / EURODOCSIS
- Bandwidth
 - 6MHz / DOCSIS
 - 8MHz / EURODOCSIS
- Input Signal Level -15dBmV to +15dBmV

Upstream (Transmitter)

- Modulation QPSK, 8/16/32/64/128,256QAM, 4 Upstream
- Data Rate 30Mbps / TDMA , 35Mbps / SCDMA
- Frequency Range
 - 5MHz~42MHz / DOCSIS
 - 5MHz~55MHz / Japan
 - 5MHz~65MHz / EURODOCSIS
- Bandwidth 200KHz, 400KHz, 800KHz, 1600KHz, 3200KHz, 6400KHz
- Output Signal Level
 - +8 to +58dBmV (QPSK),
 - +8 to +54dBmV (64QAM)
 - +8 to +54dBmV (32QAM) ,
 - +8 to +53dBmV (S-CDMA)

Networking support

- SNMP v1/v2/v3
- DHCP server and client
- DNS server
- ToD (RF868) support for local and MSO time synchronization
- TFTP client

VoIP

- SIP v2 (RFC3261) or MGCP
- CODECS: G.711, G.729A, G.723.1
- T.38 FAX Relay
- Echo cancellation G.165/G.168 up to 16ms
- Voice activity detection
- Comfort noise generation
- Voice discrimination, Fax and Modem detection

Management

- Web based management interface utility

Power Requirement

- Power: Max. 1.5A/12V DC input

Operating Environment

- Operating Temperature: 0~40 °C
- Operating Humidity: 10%~90% (non-condensed)

Ordering Number

- CLI-5320-3: S1628-H25-S
- CLI-5330-3: S1625-H22-S