

# TECHNICOLOR TC7210

## DOCSIS 3.0 VOICE CABLE GATEWAY

- 16x4 Bonded Channels
- EuroDOCSIS 3.0 certified
- Dual Mode DOCSIS/EuroDOCSIS
- Backward compatible with (Euro)DOCSIS 2.0 (and older)
- Voice EuroPacketCable 1.5 certified
- 4 GE LAN Ports
- Wireless Networking on board:
  - IEEE 802.11n 2.4 GHz (2x2)
  - IEEE 802.11ac 5 GHz (3x3)
- 2 FXS Ports for Phone or Fax
- 1 USB Master Port
- MPEG2 over IP Encapsulation Solution
- Advanced Security Features
- IPv4 and IPv6 Support



## PACKAGE CONTENTS

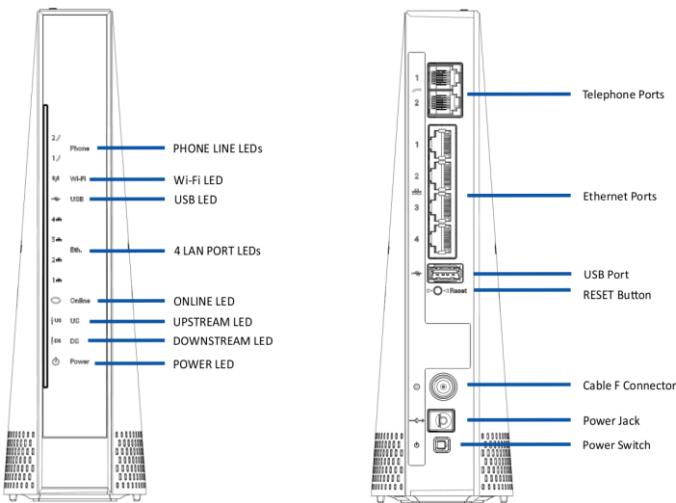
- TC7210 Cable Gateway
- Power Supply
- Ethernet Cable

## POWER SUPPLY

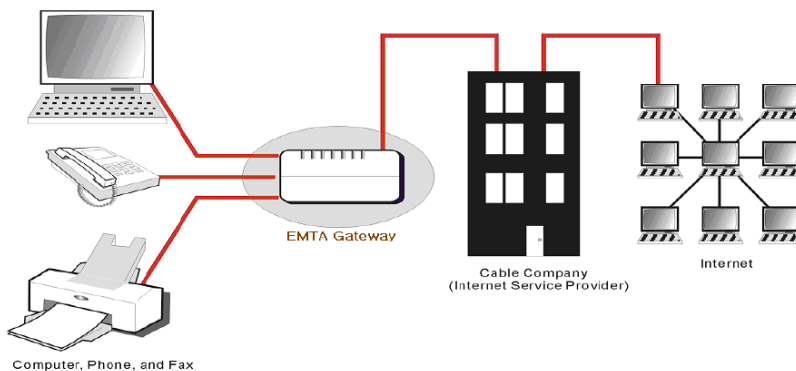
- 12 V DC
- 2 A
- 24 W



## FRONT AND REAR PANEL



## CONNECTION EXAMPLE



## SPECIFICATIONS

| CABLE CERTIFICATIONS       |  |
|----------------------------|--|
| Data                       | EuroDOCSIS® 3.0 certified  |
| Voice                      | EuroPacketCable 1.5 certified  |
| CMTS Interoperability      | EuroDOCSIS/DOCSIS CMTS   |
| RECEIVER SPECIFICATIONS    |  |
| Downstream Modulation      | QAM 64/256   |
| Downstream Frequency Range | 108-1002 MHz   |
| Max. Downstream Data Range | 880 Mbps (theoretical)<br>(55.61 Mbps x 16 Channels)   |
| Capture Windows            | Full Band Capture; Possibility to have any of the 16 Downstream Channels over the full EuroDOCSIS Spectrum |
| No. of Downstream Channels | Up to 16   |
| Input Signal Level Range   | -15 dBmV / + 15 dBmV   |

| <b>TELEPHONY SPECIFICATIONS</b>                                |   |
|--|---|
| Audio Codecs   | PCM A-law, PCM $\mu$ -law, G.729, G.729a, G.729e, G.728, iLBC and BV16  |
| Multiline Phone Support  | Two Phone Lines, Three Party Conference Calls, Supports two complex Voice Codecs simultaneously   |
| Fax Relay  | T.38  |
| Caller ID  | Type I and Type II  |
| CLASS Features   | Basic and extended CLASS Features   |
| Echo Cancellation  | G.165, G.168 up to 16 ms  |
| Packet Tone  | DTMF Generation/Call Progress Generation / Custom Tone Generation   |
| Call Discrimination  | Fax and Modem Detection   |
| Telephony Interface Capabilities                               | Loopback and on demand Diagnostics  |
| RFC 2833 DMTF Tone Relay                                       | Enabled / disabled via SNMP   |
| REN  | 5 REN   |
| PacketCable Protocols  | PacketCable NCS, Network based Call Signalling Protocol (PKT-SP-EC-MGCP), SIP protocol by software upgrade  |
| <b>TRANSMITTER SPECIFICATIONS</b>                              |   |
| Upstream Modulation  | QPSK, 8, 16, 32, 64 and 128 QAM   |
| Upstream Frequency Range                                       | 5-65 MHz  |
| Max. Upstream Data Range                                       | 131 Mbps (32.78 Mbps x four Channels)   |
| No. of Upstream Channels                                       | Four  |
| Channel Bandwidth  | 200,400, 800 kHz, 1.6,3.2 and 6.4 MHz   |
| Output Impedance   | 75 Ohm  |
| <b>HARDWARE SPECIFICATIONS</b>                                 |   |
| Interfaces WAN   | 1 RF Connector F-Type   |
| Interfaces LAN   | Four Port Auto-MDI/MDI-X 10/100/1000 Base-T Ethernet LAN switch (RJ-45)<br>Wi-Fi IEEE 802.11n 2.4 GHz on board<br>Wi-Fi IEEE 802.11ac 5.0 GHz on board<br>Two FXS POTS Ports (RJ-11), 1 USB 2.0 Master Port |
| Interfaces other   | Power Button, WPS Button, Reset Button  |
| Power supply   | 120-240 VAC, 50-60 Hz   |
| Operating temperature  | 0-40 C  |
| Operating humidity   | 2-90 % non condensing   |
| Storage temperature  | -20-70 C  |
| <b>SOFTWARE SPECIFICATIONS</b>                                 |   |
| Multiple client support  | 254   |
| Class of Services  | 32 DSIDs and 32 Service Flows   |
| Security   | BPI+  |
| HTTP server  |   |
| <b>WIRELESS SPECIFICATIONS</b>                                 |   |
| Full dual Band Concurrent Wi-Fi Access Points, Wi-Fi certified |   |
| 2.4 GHz 2x2 IEEE 802.11n AP                                    |   |
| 5.0 GHz 3x3 IEEE 802.11n AP                                    |   |
| WPA(2)-Personal Support of Temporal Key Integrity Protocol     |   |
| IEEE802.1x Port-based Authentication with RADIUS Client        |   |
| Security and Service Segregation per SSID                      |   |
| Wi-Fi Hotspot Functionality with SoftGRE Standard              |   |
| Dynamic rate switching for optimal wireless rates              |   |