

# TECHNICOLOR TWG 870

## DOCSIS 3.0 WIRELESS AND VOIP CABLE GATEWAY

- EuroDOCSIS 3.0
- EuroPacketCable 1.5/2.0
- Dual-mode cable modem: DOCSIS and EuroDOCSIS 64 MHz dual tuner
- Backward-compatible with DOCSIS 2.0 (and older)
- FON ready
- 4 port GEthernet router
- MPEG2 over IP Encapsulation solution
- Wi-fi 11n wireless connection
- Reliable high-performance platform
- Powerful processor and architecture
- Supports IPv4 and IPv6
- Advanced security features



## SPECIFICATIONS

| STANDARDS / CERTIFICATIONS       |                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Data                             | EuroDOCSIS 3.0 full certified                                                                                      |
| Voice                            | EuroPacketCable 1.5 certified Upgradeable to EuroPacketCable 2.0                                                   |
| CMTS Interoperability            | Any qualified EuroDOCSIS and DOCSIS (*) CMTS                                                                       |
| 802.11n                          | yes                                                                                                                |
| RECEIVER                         |                                                                                                                    |
| Downstream Modulation            | QAM 64/256                                                                                                         |
| Downstream Frequency Range       | 88-1002 MHz                                                                                                        |
| Maximum Downstream Data Rate     | 440 Mbps (theoretical) (55.61 Mbps x 8 channels)                                                                   |
| Capture Windows                  | 64 MHz capture window split into two windows of 32 MHz thanks to the integrated dual tuner solution                |
| Number of Downstreams            | up to 8                                                                                                            |
| Input Signal Level Range         | -17dBmV ~ +13dBmV (64QAM)<br>-13dBmV ~ +17dBmV (256QAM)                                                            |
| Input Impedance                  | 75 Ohm                                                                                                             |
| TRANSMITTER                      |                                                                                                                    |
| Upstream Modulation              | QPSK and 8, 16, 32, 64 and 128 QAM                                                                                 |
| Upstream Frequency Range         | 5-65 MHz                                                                                                           |
| Maximum Upstream Data Range      | 131 Mbps (theoretical) (32.78 Mbps x 4 channels)                                                                   |
| Number of Upstreams              | 4                                                                                                                  |
| Channel Bandwidth                | 200, 400 and 800kHz, 1.6, 3.2 and 6.4 MHz                                                                          |
| Output Impedance                 | 75 Ohm                                                                                                             |
| TELEPHONY FEATURES               |                                                                                                                    |
| Audio Codecs                     | PCM A-law, PCM $\mu$ -law, G.729, G.729a, G.729e, G.728, iLBC and BV16                                             |
| Multi-line Phone Support         | Yes, two phone lines, 3-party conference calls, can support two complex voice codecs simultaneously                |
| Fax Relay                        | T.38                                                                                                               |
| DTMF Tone Relay                  | RFC2833                                                                                                            |
| Caller ID                        | BASIC and Extended CLASS features                                                                                  |
| Voice Activity Detection (VAD)   | yes                                                                                                                |
| Comfort Noise Generation (CNG)   | yes                                                                                                                |
| Echo Cancellation                | G.65 / 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 | Loop-back and on demand diagnostics                                                                                |
| Modems                           | Up to V.90 (38.5 kbps)                                                                                             |
| RFC2833 DMTF Tone Relay          | Enabled / disabled via SNMP and Telnet                                                                             |
| REN                              | 5 REN                                                                                                              |
| Pulse Dialing                    | DTMF-tones to pulse tones conversion and pulse to DTMF tones conversion                                            |
| RTP Layer                        | RFC1889 / RFC1890                                                                                                  |
| RTCP Statistics Collection       | yes                                                                                                                |
| PacketCable Protocols            | PacketCable NCS Network-Based Call Signalling Protocol (PKT-SP-EC-MGCP), supports SIP protocol by software upgrade |
| SIP Based Protocols              | yes                                                                                                                |

