

COMPAL CD6141E

EuroDOCSIS3.0 Cable Modem

- Cable Europe Labs DOCSIS/EuroDOCSIS 3.0 certified
- 2x 96MHz full bandwidth groups
- 8 Downstream plus 4 Upstream Channel bonding, over 300Mbps downstream rate, 100Mbps upstream rate
- High speed connection with auto-sensing Gigabit Ethernet ports
- Supports IPv4 and IPv6
- Enhanced security with AES traffic encryption
- Advanced SNMP network management
- User-friendly online diagnostics
- Low-power consumption with enhanced power management
- Small form-factor



Spezifikationen / Specifications

| General | | Upstream | |
|--|---|---|---|
| Cable Interface | 75 Ω F-connector | Modulation | QPSK and 8, 16, 32, 64, 128 QAM |
| CPE Network Interface | 10/100/1000Base-T Ethernet | Max. Theoretical Data Rate | |
| Data Protocol | TCP/IP | DOCSIS | 131.072 Mbps (4 channels) / 32.768 Mbps (single channel): @ 128 QAM at 6.4 MHz |
| Dimensions | 132 mm x 132 mm x 36 mm | EuroDOCSIS | 131.072 Mbps (4 channels) / 32.768 Mbps (single channel): @ 128 QAM at 6.4 MHz |
| Power | 9W (nominal) | Channel Width | 200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz |
| Input Power | | Symbol Rates | 160, 320, 640, 1280, 2560, 5120 ksym/s |
| North America | 105 to 125 VAC, 60 Hz | Operating Level Range | Level range per channel (Multiple Transmit Channel mode disabled, or only Multiple Transmit Channel mode enabled with 1 channel in the TCS) |
| Outside North America | 220 to 230 VAC, 50 to 60 Hz | | |
| Environmental Operating Temperature | 32 F to 104 °F (0°C to 40°C) | | |
| Storage Temperature | -22°F to 158°F (-30°C to 70°C) | | |
| Operating Humidity | 5 to 95% R.H. (non-condensing) | | |
| Downstream | | DOCSIS/EuroDOCSIS | |
| Downstream Modulation | 64 or 256 QAM | TDMA | Pmin to +57 dBmV (32 QAM, 64 QAM) Pmin to +58 dBmV (8 QAM, 16 QAM) |
| Capture Bandwidth Dual | 96 MHz Capture windows | | Pmin to +61 dBmV (QPSK) |
| Max. Theoretical Data Rate | | S-CDMA | Pmin to +56 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate |
| DOCSIS | 343.072 Mbps (8 channels) / 42.884 (single channel) @ 256 QAM at 5.36 Msym/s | | |
| EuroDOCSIS | 444.928 Mbps (8 channels) / 55.616 (single channel) @ 256 QAM at 6.952 Msym/s | | |
| Bandwidth | | Level range per channel (two channels in the TCS) | |
| DOCSIS | ≤ 48 MHz | TDMA | Pmin to +54 dBmV (32 QAM, 64 QAM) Pmin to +55 dBmV (8 QAM, 16 QAM) Pmin to +58 dBmV (QPSK) |
| EuroDOCSIS | ≤ 64 MHz | S-CDMA | Pmin to +53 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate Pmin = +23 dBmV, 5120 kHz modulation rate |
| Symbol Rate | | Level range per channel (three or four channels in the TCS) | |
| DOCSIS | 64QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s | TDMA | Pmin to +51 dBmV (32 QAM, 64 QAM) Pmin to +52 dBmV (8 QAM, 16 QAM) Pmin to +55 dBmV (QPSK) |
| EuroDOCSIS | 64 QAM 6.952 Msym/s; 256 QAM 6.952 Msym/s | S-CDMA | Pmin to +53 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate |
| Operating Level Range | -15 to 15 dBmV | | |
| Bonded Channel RF | | Level range per channel (three or four channels in the TCS) | |
| Level Tolerance | 10dBmV | TDMA | Pmin to +51 dBmV (32 QAM, 64 QAM) Pmin to +52 dBmV (8 QAM, 16 QAM) Pmin to +55 dBmV (QPSK) |
| Input Impedance | 75Ω (nominal) | | |
| Frequency Range | DOCSIS and EuroDOCSIS 108 to 1002 MHz (edge to edge) | S-CDMA | Pmin to +53 dBmV (all modulations), where: Pmin = +17 dBmV, 1280 kHz modulation rate Pmin = +20 dBmV, 2560 kHz modulation rate |
| Frequency Plan | | Output Impedance | |
| EuroDOCSIS | Annex A | | 75 Ω(nominal) |
| DOCSIS | Annex B | Frequency Range | DOCSIS 5-42 MHz (edge to edge), EuroDOCSIS and optional DOCSIS 5 to 65 MHz (edge to edge) Optional DOCSIS and EuroDOCSIS 5-85 MHz |
| Security | DOCSIS 3.0 Security (BPI+, EAE, SSD) | | |
| Network Management | SNMP v2 & v3 | | |
| Provisioning Supports | IP addressing using IPv4 and/or IPv6 (dual stack) | | |