

**COMPAL CH6640E**
**EuroDOCSIS3.0 Wireless Digital Voice Gateway**

- EuroDOCSIS 3.0 / 2.0 / 1.x
- 8x4 channel bonding
- 2 RJ-11 voice ports
- 2.4GHz 802.11n wireless access point, Backwards compatible to 802.11b/g
- 2x2 internal antennas
- Multiple SSIDs
- Homespot WiFi
- WPS
- 4-port auto-sensing gigabit Ethernet switch
- One USB 2.0 host port with the support of print server and network storage function (Samba server and FTP server are supported)
- Support DLNA DMS for media sharing
- Supports IPv4 and IPv6
- Support VoIP NCS and SIP protocol in one firmware build
- Firewall and parental controls
- Enhanced security with AES traffic encryption and advanced SNMP network management
- Easy setup and installation
- User-friendly online diagnostics
- Low-power consumption


**Spezifikationen / Specifications**

GENERAL		UPSTREAM	
Standards	DOCSIS/Euro-DOCSIS 3.0 and PacketCable /Euro-PacketCable 1.0 certified; interoperable with DOCSIS/Euro-DOCSIS 2.0, 1.0 and 1.1 and compatible with Packet Cable/Euro Packet- Cable 1.5; SIP; NCS	Modulation	8, 16, 32, 64, 128 QAM or QPSK
Cable Interface	F-Connector, female, 75 Ω	Maximum Channel Rate @128QAM Bandwidth	120 Mbps (4 channels) 200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz
Network Interface	Four 10/100/1000 Ethernet Ports	Symbol Rates	160, 320, 640, 1280, 2560, and 5120 ksym/s
Wireless Interface	802.11b/g/e/i /n Wi-Fi	Operating Level Range	
Dimensions	(H) 208.49 mm x (L) 179mm x (W)50mm	A-TDMA	8 to 54 dBmV (32 QAM, 64 QAM) 8 to 55 dBmV (8 QAM, 16 QAM) 8 to 58 dBmV (QPSK)
Regulatory	RoHS compliant, CE, ENERGY STAR qualified, COC compliant	S-CDMA	8 to 53 dBmV (all modulations)
INPUT POWER	100 to 240 VAC, 50 to 60 Hz	Output Impedance	75 Ω (nominal)
<b>ENVIRONMENTAL</b>		Frequency Range	
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)	CH6640E	5 to 65 MHz (edge to edge)
Storage Temperature	-22 °F to 158 °F (-30 °C to 70 °C)	<b>TELEPHONY</b>	
Operating Humidity	5 to 95% R.H. (non-condensing)	Line Type	2-wire
<b>DOWNSTREAM</b>		Hook State Signaling	Loop start
Modulation	64 or 256 QAM	Maximum Line Length	1000 ft (AWG 26/0.4 mm @ 65 °C)
Data Rate		DTMF Level Sensitivity Range	0 and -20 dBm
DOCSIS	343.072 Mbps (8 channels) / 42.884 (single channel) @ 256 QAM at 5.36 Msym/s	Speech Coding	64 kbps PCM, μ-law or A-law companding; support G.711 and ow-rate vocoders; T.38 support
EuroDOCSIS	444.928 Mbps (8 channels) / 55.616 (single channel) @ 256 QAM at 6.952 Msym/s	Line Termination	Configurable based on market needs
Maximum Bandwidth Required		Loss Plan	
DOCSIS	6MHz * 8 channels	Receive	(D/A) 11 dB
EuroDOCSIS	8MHz * 8 channels	Transmit	(A/D) 4 dB
Symbol Rate		Loss Plan Tolerance	±1 dB
DOCSIS	64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s	60/50 Hz loss >20 dB	(1-way; referenced to off-hook loss at 1,004 Hz)
EuroDOCSIS	64 QAM 6.952 Msym/s; 256 QAM 6.952 Msym/s	Ringling Wave Form	
Operating Level Range		Sinusoidal Balanced Tracking mode 55Vrms/48Vdc	
CH6640E	-13 to +17 dBmV (256 QAM) -17 to +13 dBmV (64 QAM)	Trapezoidal Balanced Tracking mode 55Vrms/48Vdc	
Frequency Range	108 to 1002 MHz	Sinusoidal Unbalanced Tracking 46Vrms/70Vdc	
Input Impedance	75 Ω (nominal)	Sinusoidal Balanced Fixed mode 55Vrms/48Vdc	
		Ringling Crest Factor	1.2<CF<1.6
		Ring Trip (maximum)	200 mS with 300 Ohm termination