

## MediaAccess TC7230

Gigabit-Class Wireless .11ac  
Voice Cable Gateway



I speak  
Qeo

24 x 8



### CABLE

DATA

VOICE

VIDEO

- EuroDOCSIS 3.0
- Dual mode DOCSIS/EuroDOCSIS
- Backward compatible with (Euro)DOCSIS 2.0 (and older)
- 24 bonded Downstream and 8 bonded Upstream Channels
- Voice EuroPacketCable 1.5 compliant
- 4 GbE LAN ports
- Wireless Networking on-board:
  - IEEE 802.11n 2.4 GHz (2x2)
  - IEEE 802.11ac 5.0 GHz (3x3)
- 2 FXS Ports for Phone or Fax
- 1 USB 2.0 Master Port
- Future-proof full Service Platform supporting:
  - Qeo Communication Framework and Apps
- IPv4 and IPv6 DS-Lite Support



### Spezifikationen/ Specifications

Hardware Specifications		Services	
Interfaces WAN	1 RF connector F-Type	Support of Qeo communication framework and apps, including access to real time diagnostics	
Interfaces LAN	4-port auto-MDI/MDI-X 10/100/1000 Base-T, LAN switch (RJ-45), Wi-Fi IEEE 802.11n 2.4 GHz on board, WiFi IEEE 802.11ac 5.0 GHz on-board, 2x FXS POTS ports (RJ-11), 1 USB 2.0 master port	Parental control	URL- and content-based website filtering
Interfaces other	Power button, WPS button, Reset button	Content sharing	file server, DLNA DMS
Dimensions	218 x 63 x 160 mm (8.6 x 2.5 x 6.3 in)	<b>Security</b>	
Power supply	120-240 VAC, 50-60 Hz	Stateful Packet Inspection Firewall (SPIF), Customizable firewall security levels, Intrusion detection and prevention (DoS, SYN Flood, Ping of Death), Security and service segregation per SSID	
Operating temperature	0° to 40° C (32° - 104° F)	<b>Networking</b>	
Operating humidity	20 % to 90 % non-condensing	Network protocol	IP, TCP, UDP, ARP, ICMP, DHCP, TFTP, HTTP
<b>Cable Certifications</b>		SNMP management	SNMP v2, SNMP v3
Data	EuroDOCSIS 3.0 compliant	<b>Software</b>	
CMTS interoperability	Any qualified EuroDOCSIS / DOCSIS CMTS	Multiple client support	254
<b>Receiver Specifications</b>		Class of Services	32 DSIDs and 32 Service Flows
Downstream modulation	QAM 64/256	Security	BPI+
Downstream frequency range	108 - 1002 MHz	<b>Telephony</b>	
Max. downstream data range	1.2 Gbps (theoretical), (55.61 Mbps x 24 channels)	Audio codecs	PCM A-law, PCM μ-law, G 729, G 729a/e, G 728, iLBC and BV16
Capture windows	Full Band: possibility to have any of the 16 downstream channels over the full EuroDOCSIS spectrum	Multi-line phone	2 phone lines, 3-party conference calls, 2 complex voice codecs simultaneously
No. of downstream channels	Up to 24	Fax relay	T.38
Input signal level range	-15 dBmV / + 15 dBmV	Caller ID	Type I and Type II
<b>Transmitter Specifications</b>		CLASS features	Basic and extended CLASS features
Upstream modulation	QPSK 8,16,32,64 and 128 QAM	Voice Activity Detection (VAD)	
Upstream frequency range	5 - 85 MHz	Comfort Noise Generation (CNG)	
Max. upstream data range	240 Mbps (theoretical), (32.78 Mbps x 8 channels)	Echo cancellation	G.165, G.168 up to 16 ms
Number of upstream channels	8	Packet tone	DTMF generation, Call progress generation, Custom tone generation
Channel bandwidth	200, 400 and 800 kHz, 1.6, 3.2 and 6.4 MHz	Call discrimination	Fax and modem detection
Output impedance	75 Ohm	Modems	Up to V.90 (38.5 kbps)
<b>Wireless Specifications</b>		Pulse dialing	DTMF/pulse tones, Pulse/DTMF tones conversion
2.4 GHz (2x2) IEEE 802.11n AP, 5.0 GHz (3x3) IEEE 802.11ac AP with IEEE 802.11		RTP layer	RFC 1889, RFC 1890
Wi-Fi security levels	IEEE802.1x port-based authentication with RADIUS client, WPA2-Personal/WPA-Personal, WEP	SIP based protocols	
3x3 MIMO 5GHz WiFi features	Sgi, STBC, 20/40/80 MHz mode		

