

Audio Codec over IP for 5.1 Audio



IP Audio Codec with 6 mono channels

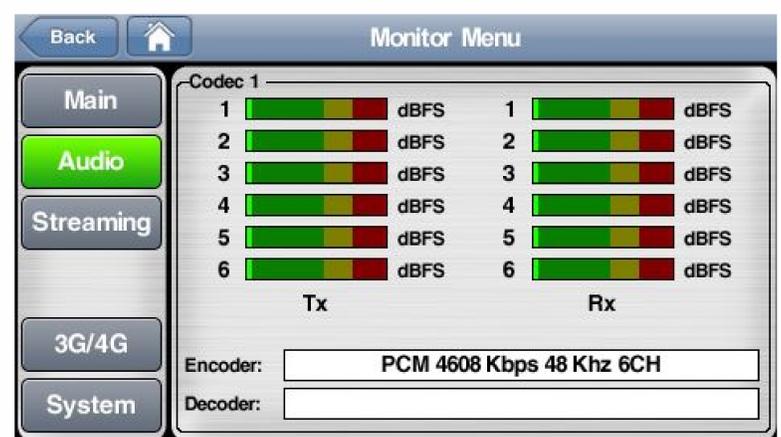
Quantum MC is a 1U rack mount IP audio codec extending the QUANTUM product family

Quantum MC is a Multi-Channel IP codec for bridging phase locked 5.1 audio signals over Internet between two such devices. (This is 6 phase locked mono audios.)

Alternatively this product might be used for a efficient low delay bidirectional bridge of 6 voices /audios between two production sites.

Quantum MC fully supports IP (TCP and UDP). This enables remote monitoring/configuring and data/audio transportation over data communication links (LAN, WAN, 3G/4G, BGAN, Internet...).

This unit can be controlled from its built-in web graphical interface, its front panel display menu, or from the ProdysControlPlus application.



Operation Features

- ✓ **BRAVE**: highly resilient streaming protocol for contribution and distribution.
- ✓ **2 x Ethernet interfaces**, either to split streaming and control or to provide 2 bonded or redundant IP links.
- ✓ **User friendly operation** with web browser, **ProdysControlPlus** application, SDK interface or optional touch panel
- ✓ **Dante/AES67 or Ravenna/AES67**: interface for uncompressed digital audio.
- ✓ **User Access Control** to define different access restrictions in a per user basis.
- ✓ **Configuration presets** to define different configurations for all or some specific parameters.
- ✓ **Alarms**: Real Time alarms management through **SNMP traps**, **GPO** and **e-mails**.
- ✓ AC power supply with an **option for a AC or DC redundant power supply**.



Quantum MC Rear Panel

Audio Features

- ✓ **Audio Compression Algorithms**
 - PCM (16, 20 & 24 bits) (mn, st, 6ch)
 - Enhanced apt-X™ (mn, st, 6ch)
 - G722, G711 A/μ Law (mn)
 - MPEG 1,2 Layer II (mn, st)
 - MPEG AAC LC, LD, HE & ELD (mn, st)
 - OPUS (mn, st)

- ✓ **Dante/AES67 or Ravenna/AES67**

Communications Features:

- ✓ **IP**
 - 10/100/1000BaseTx Ethernet ports, RJ45 connectors.
 - 2 Ethernet ports for bonding, diversity or splitting control and stream.
 - Full **TCP/UDP/IP** connectivity.
 - **IP Multicast & Unicast** audio streaming transmission/reception.
 - Prodys **NAT Traversal** Streaming Protocol permits router firewall pass-through.
 - **FEC** (Forward Error Correction) and **Active Packet Recovery** to recover lost packets.
 - **Automatic Jitter buffer** to avoid audio dropouts, compensating for up to 20 seconds.
- ✓ **3G/4G** (optional): Streaming over 3G/4G networks via **External Communication Module**.
- ✓ **Auxiliary data**: Auxiliary data on RS232 port from 300 to 115200 bps.
- ✓ **GPIO**: 7 inputs/outputs. User configurable. Remote contact closures.
- ✓ **Local or remotely (TCP/IP) upgrading** of one or several units at once using the same utility. Factory software upgrades can be downloaded free.



Width	Height	Depth	Chassis
19"	43.4 mm	295 mm	1U

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