



## IP Audio Codec with 6 mono channels

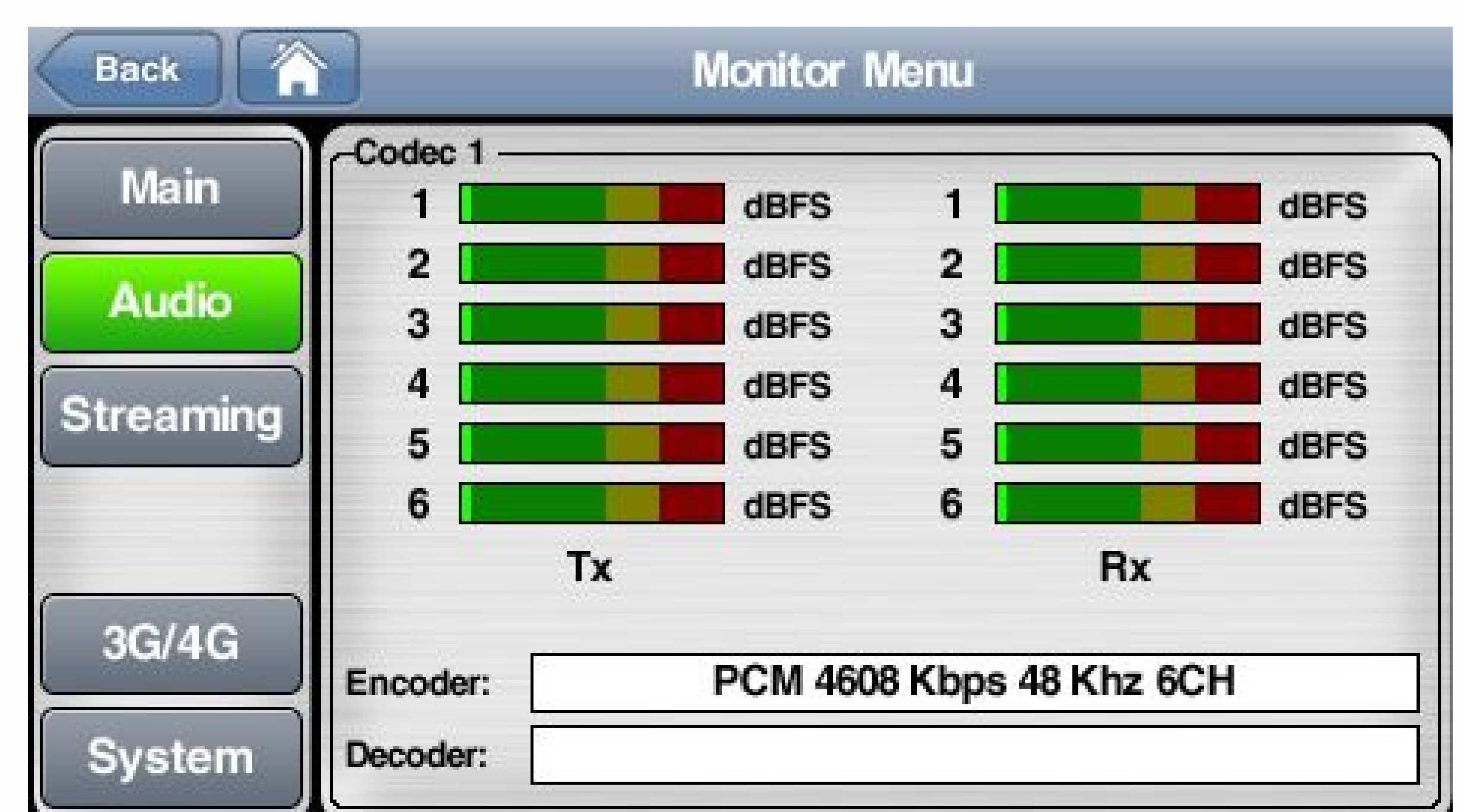
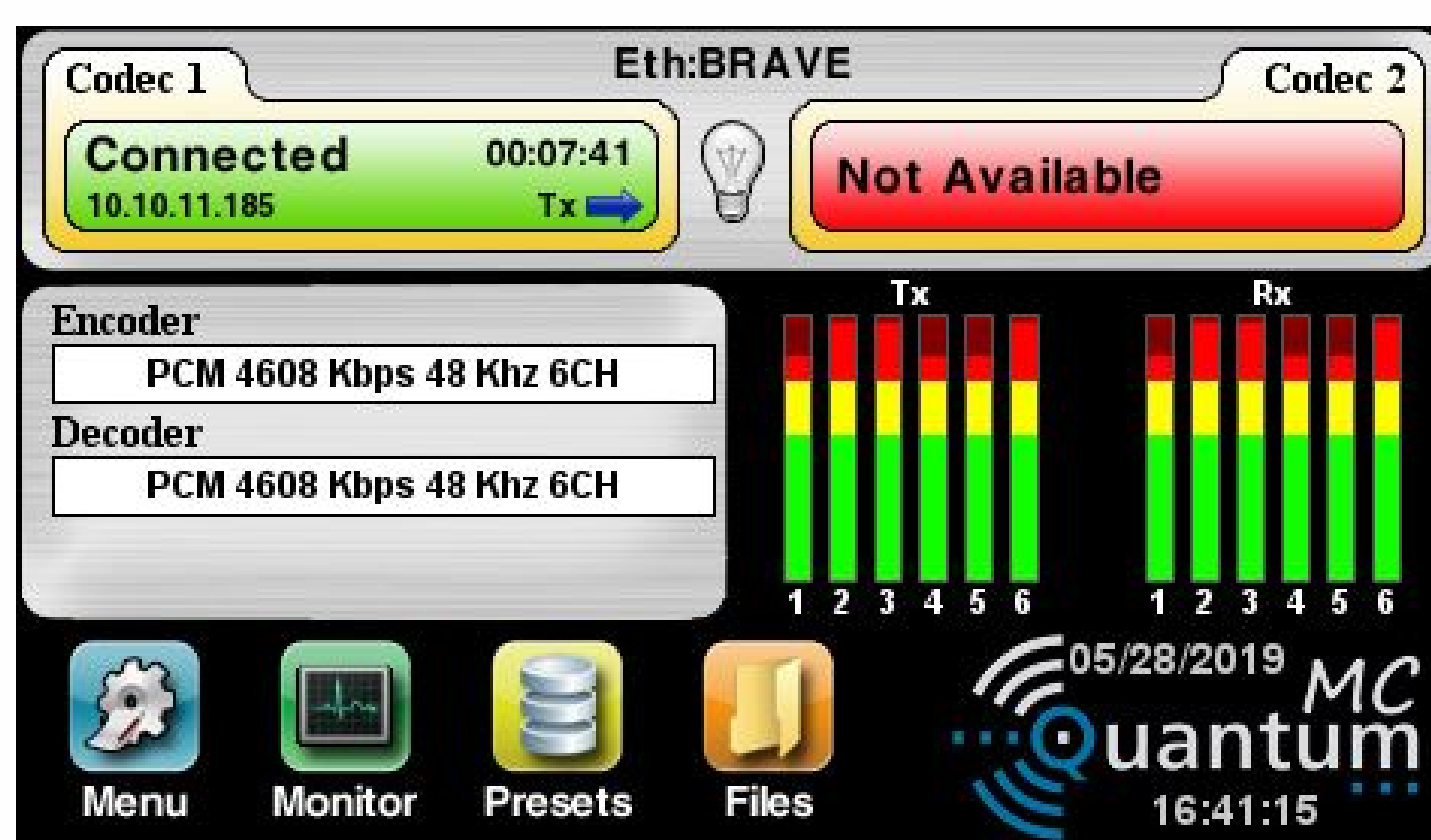
**Quantum MC** is a 1U rack mount IP audio codec extending the QUANTUM product family

**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.



Audio Codec over IP  
for 5.1 Audio

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