



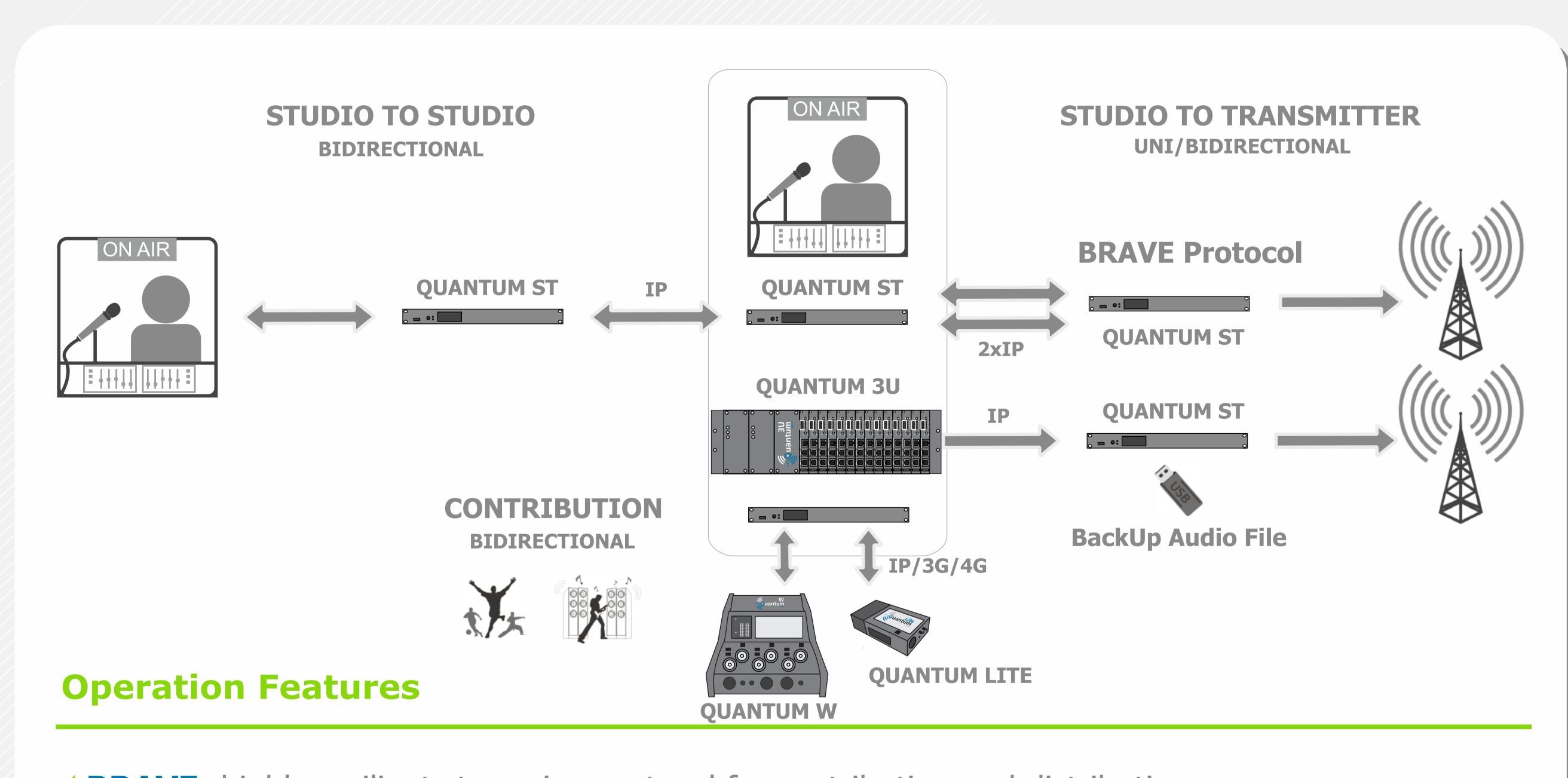
Quantum ST is a powerful new-generation 1U rackmount IP audio codec that inherits world-class IP technology from Prodys's **Ikusnet** video codec family and **Prontonet** audio codec family.

Quantum ST is an audio codec with a wide range of compression algorithms: PCM, G711, G722, MPEG Layer II, apt-X, OPUS and optionally MPEG AAC LC/LD/HE & ELD.

There are two different models:

- ✓ Single Stereo: with one stereo and XLR connectors for analog and digital inputs/outputs.
- ✓ Dual Stereo: with two independent stereo channels and subD connectors.

Quantum ST 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...).

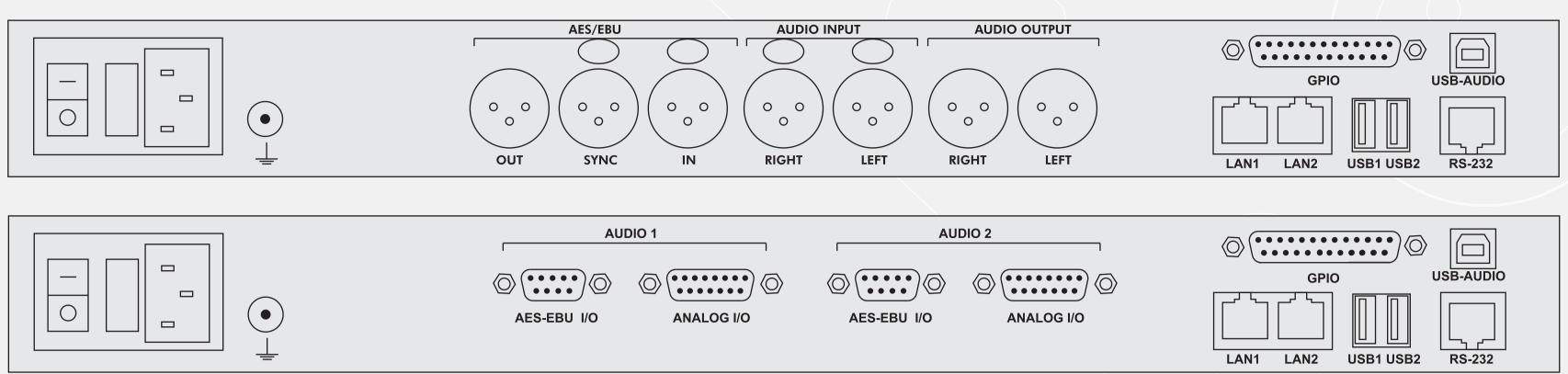


- ✓ BRAVE: highly resilient streaming protocol for contribution and distribution.
- ✓ SIP and SIP Diversity: Interoperation among different brands according to N/ACIP EBU3326/3368
- ProntoNet family compatible, with SIP and V4 protocol (optional).
- ✓ 2 x Ethernet interfaces, either to split streaming 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: Optional inferface 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.





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Quantum ST Single Stereo

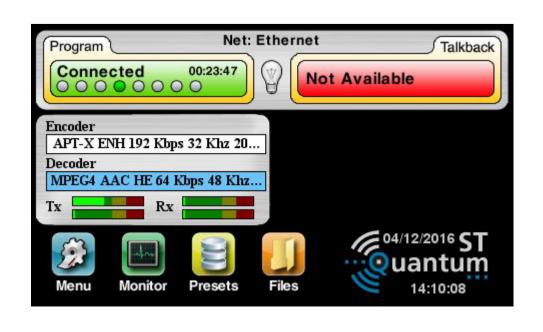
Quantum ST Dual Stereo

Audio Features

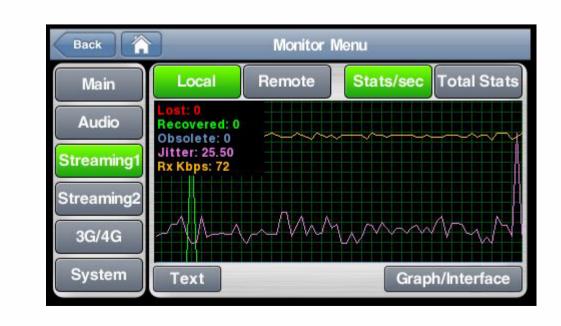
- Analog and Digital Stereo Audio in a single unit
- Analog Audio
- 24 bits A/D and D/A converters.
- XLR (Single Stereo) or sub-D (Dual Stereo) connectors
- Digital Audio
- AES/EBU. Up to 24 bits. Automatic rate adaptation.
- External clock input.
- XLR (Single Stereo) or sub-D (Dual Stereo) connectors
- Audio Compression OPUSAlgorithms G722,
 - G722, G711 A/µ Law
 - MPEG 1,2 Layer II
- Enhanced and Standard apt-X™
- PCM (16, 20 & 24 bits)
- MPEG AAC LC, LD, HE & ELD (Optional)
- **✓ Dante/AES67** or **Ravenna/AES67** (Optional)

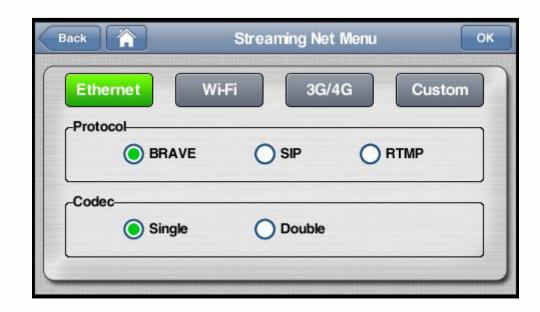
Communications Features:

- ✓ Dual operation over IP : Program and Talkback lines, mono or stereo
- ✓ IF
- 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 & Multi-Unicast audio streaming transmission/reception.
- IP Compatibility: ProntoNet v4 (option) and SIP protocol (N/ACIP EBU Tech 3326 & 3368)
- 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.
- Wi-Fi (optional)
 - Wi-Fi interface 802.11 b/g/n compatible.
 - Available for bonding or diversity with Ethernet and/or 3G/4G.
- ✓ 3G/4G (optional): Streaming over 3G/4G networks via External Communication Module.
- ✓ ISDN (optional): ISDN terminal adaptor with S/T and U interfaces.
- Auxiliary data: Auxiliary data on RS232 port from 300 to 115200 bps.
- ✓ GPIO: 7 inputs/outputs. User configurable. Remote contact closures.
- ✓ File reception and automatic forwarding to an FTP server.
- ✓ BackUp Audio File: Fail-over solution that switches audio output to playlist from a USB stick.
- ✓ 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