

QUANTUM ST & QUANTUM ST DUO

19" IP Audiocodex. Single or Double Stereo

OVERVIEW

Quantum ST and Quantum ST DUO are IP stereo codecs in 19" x 1U form-factor for studio or OB vehicle. A wide range of audio inputs and outputs are accepted: AES/EBU, analogue, USB audio, Dante or AES67 Ravenna (optional).



Double Ethernet, bonded LTE support (optional together with HG2 product) or ISDN (optional) are provided for wide area network connections.

Administration or supervision is supported via HTML5 browsers, front LEDs, API, SNMP, Control Touch Panel (optional) or ProdysControlPlus (optional).

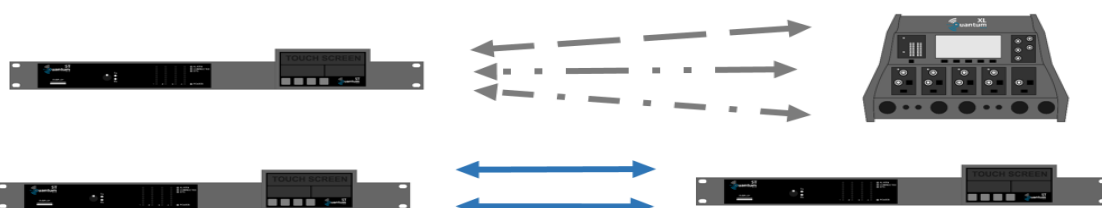
APPLICATIONS

Quantum ST (1x stereo) or Quantum ST DUO (2x stereos) are common at Master Control Rooms for any purpose. Often those products are also used as mate codec for outside broadcast equipment of any brand.

Quantum ST DUO LTE with its HG2 accessory enables outside broadcasting vehicles with two full bidirectional stereo /mono links over multiple LTE access points.

Not only for contribution but also for distribution networks, Quantum ST or ST DUO provides steady and highly reliable audio links using diversity streams. Point to multipoint distribution is supported (multi-unicast 1:10) or unlimited with multicast protocol.

BRAVE Diversity and multi-network bonded protocol. Compatibility with other brands is achieved with standard protocols like SIP EBU, SIP Diversity and RTP protocols. ISDN is also an option.



SPECIFICATIONS

Specifications and designs are subject to change without notice.

FEATURES

AUDIO INPUTS/OUTPUTS

- 2 st AES/EBU DB9 (QST DUO)
- 2 st analogue line level DB15 (QST DUO)
- 1 st AES/EBU XLR (QST)
- 1 st analogue line level XLR (QST)
- 1 or 2 st DANTE redundant RJ45 (optional)
- 1 or 2 st AES67 /Ravenna RJ45 (optional)
- 1 st USB Audio
- Headphone output jack
- Audio file playback (optional)
- 96 KHz/ 24 bits AD/DA converters

COMPRESSION ALGORITHMS

- PCM (16, 20 & 24 bits)
- Enhanced apt-X
- OPUS
- G722
- G711
- MPEG Layer 2
- MPEG AAC LC, LD, HE & ELD (optional).

CONTROL

- Local control via web browser
- Detachable Touch Panel (optional)
- ProdysControlPlus (optional)
- Ethernet port for independent control
- Configurable user access
- Record of configuration settings in computer or USB device
- API /SDK control interface
- SNMP monitoring /TRAPS
- Record of streaming performances for analysis
- 7x GPI & 7x GPO contacts

FEATURES

STREAMING

- Two independent mono (QST) or stereo (QST DUO) channels
- BRAVE Diversity or Bonded protocol
- SIP EBU NACIP 3326 & 3368 and RTP
- SIP Diversity 2x2 with two IP interfaces (optional)
- BRAVE Diversity 2x2 with two IP interfaces (optional)
- Profiles & Automatic Jitter Buffer adaptation
- Independent Full Duplex TX and RX operation
- FEC (Forward Error Correction) and Active Packet Recovery to recover from packet losses
- Point to Multipoint operation (Multi-Unicast)
- Multicast operation
- Auxiliary Serial Data

ETHERNET

- 10/100/1000 BaseTx Ethernet (2x RJ45 connectors)
- VLAN (optional)

Redundancies

- Double /Diversity streaming interfaces
- Redundant power supplies (optional)
- Redundant AoIP RJ45 interfaces (optional)

LTE support

- HG2 module (4x LTE access) (optional)
- Shielded 5m extender cable for car roof (optional)

ISDN support

- ISDN support ST & U (optional)

PHYSICAL SPECS

DIMENSIONS & WEIGHT

- H x W x D: 1U x 19" x 230mm
- Weight: 3kg

