QUANTUM 3U
Modular IP Audio Multicodec. Up to 28 stereo channels.

OVERVIEW

Quantum 3U is a modular IP codec construction matching different number of stereo or mono codecs and different audio input / output interfaces. The maximum capacity is set to 28 stereo channels with AES67 /Ravenna or AES67/Dante (optional) or AES/EBU (optional). Analogue Audio interfaces are optional modules as well.
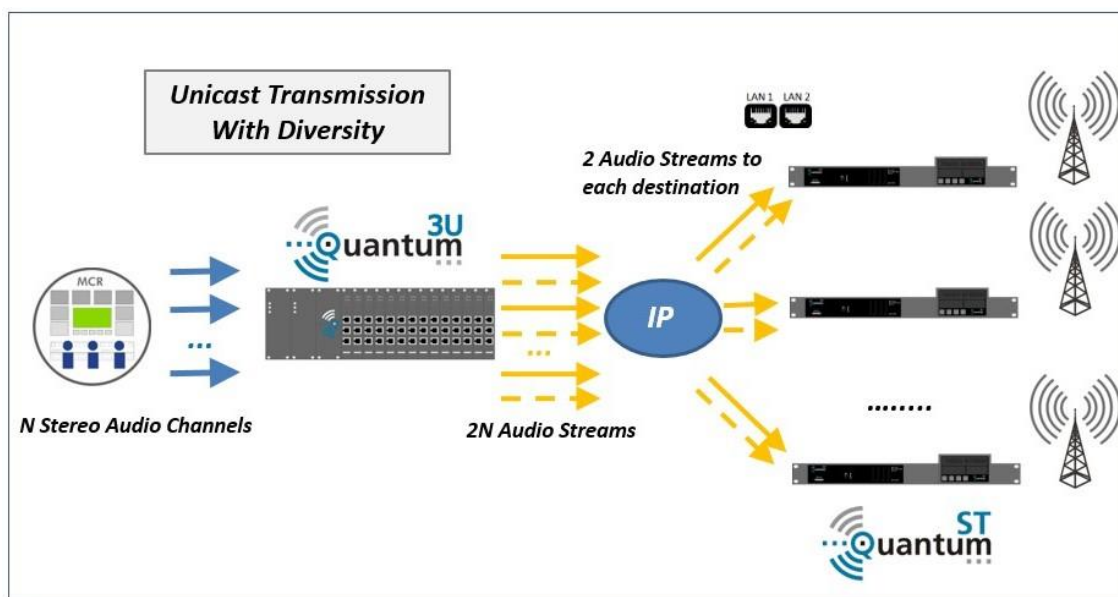

The modular construction assures a very high service availability with independent processors, redundant power supplies and redundant streaming network accesses

APPLICATIONS

According to its high density concept, this products fits into only 3U rack space but allowing full flexibility for setting each codec to its specific task with a higher reliability figure than server software appliances.

Quantum 3U is often used for backhaul communication between premises or as central hub linked to a periphery populated with other smaller Quantum or SIP codecs.

Diversity protocols with redundant network interfaces allows multi-path streaming for outside broadcast operation our backhaul communication. Point to Multipoint distribution of audio is possible.

SPECIFICATIONS

Specifications and designs are subject to change without notice.

FEATURES

AUDIO INPUTS/ OUTPUTS
- 1 .. 28 st AES67 /Ravenna RJ45 (optional)
- 1 .. 28 st DANTE RJ45 (optional)
- 1 .. 28 st AES/EBU DB9 (optional)
- 1 .. 14 st analogue line level DB15 (optional)

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

CONTROL
- Local control via web browser
- Remote control o via ProdysControlPlus
- Configurable user access control
- SDK control interface
- SNMP monitoring /TRAPS
- Record of streaming performances for analysis
- GPI & GPO contacts

PHYSICAL SPECS

DIMENSIONS & WEIGHT
- H x W x D: 3U x 19" x 363mm
- Weight: 11,5kg (100% modules) – 8kg (50%)

FEATURES

STREAMING
- BRAVE Diversity or Bonded protocol
- SIP EBU NACIP 3326 & 3368
- SIP Diversity 2x2 with two IP interfaces (optional)
- BRAVE Diversity 2x2 with two IP interfaces (optional)
- RTP
- MPEG-TS (up to 14x Single Programs)
- Profiles & Automatic Jitter Buffer adaptation
- Independent 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 ports (RJ45 connectors)
- VLAN (optional)

REDUNDANCY
- Redundant power supplies AC/DC
- N x independent codec modules
- N x2 Ethernets ports for streaming or control
- Redundant AoIP RJ45 interfaces
- 1 Ethernet port for independent control