Quantum Lite

Prodys

Revolutionary Portable IP Audio Codec for Reporters

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Quantum Lite is Prodys's handheld audio codec for professionals having no equal in the broadcast market. This device enables **extreme reliable field audio contributions** over wireless networks by means of concurrent use of **two UMTS/LTE network** connections

Quantum Lite might combine up to **4 uplink IP connections**: **2x UMTS/LTE**, **1x Ethernet** & **1x Wi-Fi** for any scenario.

This device turns also off-line jobs in easy tasks with embedded **audio recording and transfer**.

1 Audio MIC / LINE input

1 x Headphone output

USB

1 x Stereo Audio input/output over **USB**

1 x **Auxiliary** Stereo Audio Input / Output



4 IP Bonding interfaces

Wi-Fi 802.11 b/g/n

3G / 4G Bonding x 2

1 x **Ethernet** interface

1 x Stereo audio stream over IP

Operation Features

- **BRAVE**: Highly resilient streaming protocol for contribution and distribution.
- Inherits **world class IP technology** from the Prodys Audio/Video Codec Family: Auto Jitter Buffer, **IP bonding, Real Time Analyzer, FEC, NAT Traversal**…
- **Low delay audio** encoding with **Opus** & **Aptx**. (G722 and MPEG LayerII optional).
- **Bonding of up to 4 IP links** for secure audio streaming and get the best possible audio quality.
- **Double UMTS /LTE** operation. (Double SIM registration). **Bonding** or **Diversity**
- **SIP and SIP Diversity** according to N/ACIP EBU Tech 3326 and 3368 (Optional)
- **Wi-Fi interface 802.11 b/g/n compatible**. Available for bonding with Ethernet and/or 3G/4G.
- **3 push-lock audio controls** for mic, local headphone and return signal control
- **User friendly interface** via **touch panel**. Intuitive handling.
- **Audio recording , playback**, **edition** and **file transfer.**
- **Large autonomy battery.**







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QLST

Revolutionary Portable IP Audio Codec for Reporters

QLST, the studio codec for Quantum Lite

QLST is the ideal studio mate for the handheld Quantum Lite product. It is a half-size rackmount unit that complements the operation of the portable Quantum Lite, allowing the reconstruction and decoding of the transmitted audio signal.

Alternatively any member of the Quantum family might interoperate with Quantum Lite.



QLST

Operation Features

- Compatible with all the operational features of Quantum family's **BRAVE protocol**: **Bonding**, **Diversity**, **Active Recovery**, **FEC**…
- **Low delay audio** encoding with **Opus** & **Aptx**
- XLR connectors. **Analog or Digital** audio available.
- **User friendly interface** via **web page.** Optional touch panel.



QLST. Rear View

Quantum Lite and QLST Technical Features

General Features

- BRAVE protocol with Bonding or Diversity
- FEC and Active Packet Recovery
- Automatic Jitter Buffer
- Low delay audio encoding with Opus and Aptx
- Real time Network Monitoring Tools and statistics
- SIP and SIP Diversity according to N/ACIP EBU TECH 3326 and 3368 (optional)

Quantum Lite Features

- 2 integrated UMTS / LTE modems with micro SIM slots
- 1 XLR mic/line input with phantom
  1 minijack Headphone output.
- 1 line level stereo input and 1 line level stereo output with minijack connectors
- 1 stereo audio USB input /output port.
- 1 Fast Ethernet interface
- Storage via SD card or USB memory device
- Li-pol battery (autonomy 4h)
- Touch panel control with low power mode

QLST Features

- 2 Fast Ethernet interfaces to split data from control traffic.
- Assembly of demultiplexed audio streams
- Analog or Digital audio interfaces with XLR connectors
- 2 USB for external memory (file transfer reception)
- LED status indication for major alarm, minor alarm and power-on
- Optional removable touchpanel control
- AC/DC adaptor included

Dimensions

	Width	Height	Depth	Weight
Quantum Lite	177 mm	43 mm	93 mm	580 g
QLST	210 mm	42 mm	173 mm	500 g

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