

Revolutionary Portable IP Audio Codec + Audio Mixer

QUANTUM W Portable Audio Codec

Quantum W is Prodys' new powerful portable IP audio codec with 3 mic/line inputs and a built-in audio mixer that extends the technology introduced in the existing Prodys Nomada codec family.

Quantum codecs inherit world-class IP technology from the Prodys Ikusnet Video Codec Family: Automatic Jitter Buffer, Adaptive Bit rate, **Bonding of up to 7 IP links** (Ethernet, 3G/4G, Wi-Fi) for secure audio streaming with the best possible audio quality.

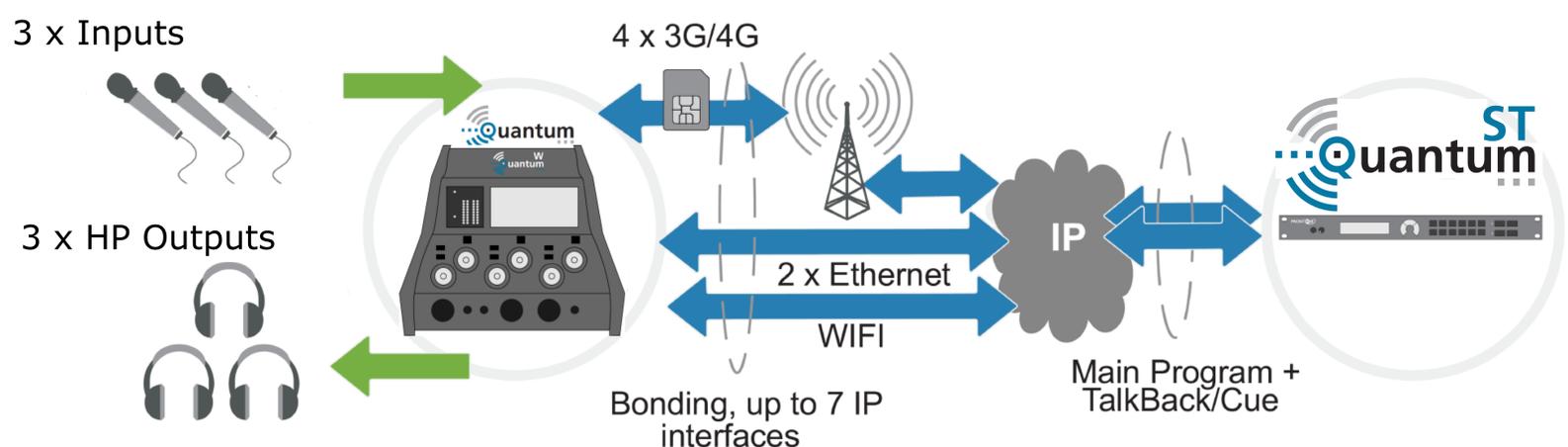


Quantum W

A **Wireless Communication Module** is available with up to four 3G/4G data links with bonding capabilities. This module is external for better reception and versatile installation options.

Operation Features

- ✓ **BRAVE**: highly resilient streaming protocol for contribution and distribution.
- ✓ **User friendly interface via touch panel**, built-in Web Server or **ProdysControlPlus** application.
- ✓ **Bonding of up to 7 IP links** (1xWi-Fi, 2xEthernet, 4x3G/4G) for secure audio streaming.
- ✓ **2 x Ethernet** interfaces: Either to split streaming and control or for bonding 2 IP links.
- ✓ **2 x internal or 4 x external 3G/4G** data links with **bonding** capabilities.
- ✓ **Widest range of audio compression algorithms**: OPUS, G711/G722, MPEG 1/2 Layer II, MPEG4 AAC LC/HE/ELD, Standard and Enhanced apt-X, Linear PCM 16/24bits.
- ✓ **Alarms**: Real Time alarms management through **SNMP traps** and **GPO**.
- ✓ **Portability**: Long duration battery.
- ✓ **Usability**: Configurable User access control, powerful and flexible Presets, Alarms, Profiles.
- ✓ **ProntoNet Family compatible** with **SIP and V4 protocol** (optional).
- ✓ **Dante/AES67** and **Ravenna/AES67** optional.





Quantum W

Audio Features

- ✓ Inbuilt **channel mixer** for both input and output sources.
- ✓ All Mic Lines include 48V **phantom power**
- ✓ XLR connectors in inputs (**3 x Mic/Line + 1 x AES/EBU + 1 x International sound**) and **2 x Aux Outputs**.
- ✓ 3 x 6,35 mm jack connectors in Headphone Outputs.
- ✓ Local or Remote control of levels and signals (I/O matrix).
- ✓ 1 x USB Stereo Audio Input/output interface
- ✓ Dante/AES67 or Ravenna/AES67 optional.
- ✓ **Audio Compression Algorithms**
 - OPUS
 - G722, G711 A/μ Law
 - MPEG 1,2 Layer II
 - MPEG AAC LC, LD, HE & ELD (optional)
 - Enhanced apt-X™
 - PCM (16,20 & 24 bits)



Communications Features: IP, Wi-Fi and 3G/4G

- ✓ **Dual stereo operation over IP:** Program and Talkback lines.
- ✓ **IP**
 - 2 Ethernet ports for bonding or splitting control and stream.
 - 10/100/1000BaseTx Ethernet ports, 2xRJ45 connectors.
 - Fully **TCP/UDP/IP** connectivity.
 - **IP Unicast, Multicast and Multi-Unicast** audio streaming transmission/reception.
 - **IP Compatibility:** SIP/SDP/RTP/STUN according to **N/ACIP EBU Tech 3326 & 3368**.
 - **SIP Diversity** with two IP interfaces.
 - **FEC** (Forward Error Correction) and **Active Packet Recovery** to recover from packet losses.
 - Available for **Bonding or Diversity** with Wi-Fi and/or 3G/4G
 - **Automatic Jitter buffer** to avoid audio dropouts.
- ✓ **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 with **2 options:**
 - **2 internal modems.**
 - **External Communications Module** with up to 4 3G/4G SIM cards.
- ✓ **ISDN** (optional)



External Communications Module

Dimensions

	Width	Height	Depth	Weight
Quantum W	210 mm	85 mm	235 mm	1.9 Kg

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