

Product Brief

OmniAudio Audio Network Unit – ANU

End unit designed to communicate with OmniAudio Server unit for high-end simulators and modelling environments including Level-D flight simulators

- Utilizing IEEE AVB/TSN technology for low latency media transfer over ethernet
- Enables connection to variety of communication devices

The OmniAudio ANU is a compact, 48 kHz digital audio distribution module that connects remotely located operator stations and live radios to the audio network. The ANU provides noiseless analog-to-digital conversion, and low-latency audio distribution over ethernet.

The ANU integrates press-to-talk (PTT) units, volume controls, simulated communication panels, hand-held terminals, and live radios into the simulated communications environment.

ANU supports the following features:

- 48 kHz digital audio interfaces
- Software-adjustable amplifier or pre-amplifier gains and microphone power for easy, direct connection to military and commercial headsets and a wide variety of audio and communication systems and peripherals.
- Configurable digital and analog input/output (I/O) for direct connection of PTT units, volume control, switch detection, radio PTT activation, and other control applications.
- Each device supports 4 differential audio inputs and 8 single-ended audio outputs, 3 control inputs and 1 digital output.



IEEE AVB/TSN based network stack provides low latency sound dissemination over ethernet. IEEE AVB/TSN guarantees initiation and flow of streaming data over the network less than 8 ms.

Compared with existing commercial alternatives, IEEE AVB/TSN is the fastest solution with no license fees.

ANU is one of the key components of OmniAudio simulation environment. It is responsible for continuously conveying data to and from OmniAudio Simulation servers. Inputs taken from analog and digital ports are feed to server(s) and simulation outputs generated by server(s) are transferred to end points.

Specifications

General

Product Codes	ANU-P4 - 4 Channels
Connectors	RJ-45 Copper DB-15
Standards	IEEE 802.1BA AVB/TSN

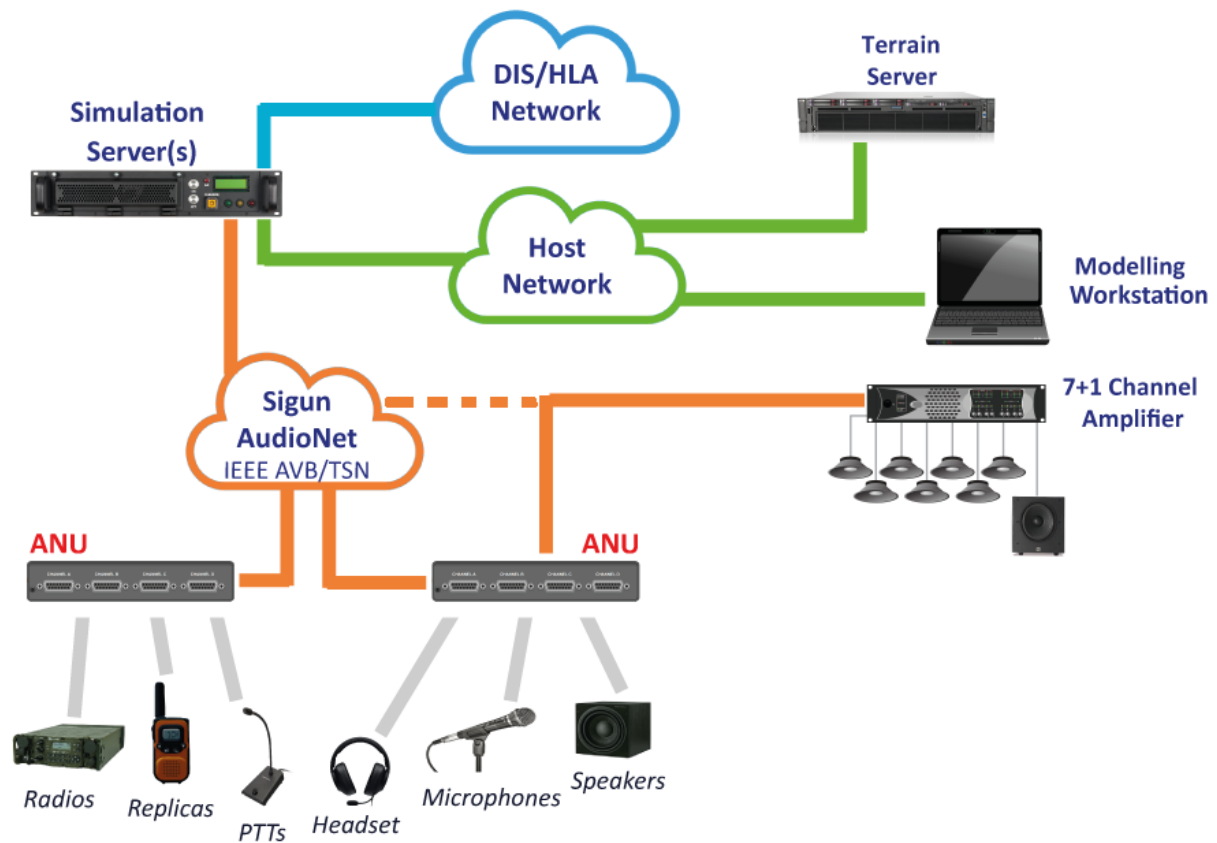
Technical Features

Sampling	16-bit depth for 48kHz
Latency	< 8 ms
Channels	4

Physical Dimensions

Length	24 cm (9.44 in)
Width	19 cm (7.4 in)
Height	4.4 cm (1.7 in)
Weight	1850 gr

OmniAudio Simulation Environment



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