Digital Bidirectional Base Station (Sennheiser Spectera Base Station)

Digital bidirectional 19"/ 1U Base Station with up to 32 individually selectable audio inputs and outputs/ 64 audio links with 11 audio link modes with selectable audio codecs and PCM for wireless transmission of audio and control data on up to two HF broadband channels (6/ 8 MHz) in the UHF or 1G4 range to match the wireless system described in the system description.

The Base Station shall be equipped with a 3 x 32 input/32 output audio matrix with an integrated Dante module that shall support redundant Dante (32 x 32 audio channels, AES67); it shall operate at a sampling rate of 48/96 kHz, and each audio interface shall have an individual sampling rate converter. The configured audio links shall be listened to via the headphone output.

The Base Station shall process only digital audio signals without any analog components (compander, RF emphasis, etc.).

A digital antenna connected for this purpose shall allow it to operate as a continuous broadband spectrum analyzer, while other connected antennas shall continue to transmit IEM, IFB and microphone signals at the same time. The antenna connections shall also be used for multi-zone distribution and range extension.

The Base Station shall have two redundant 100 – 240 V power supply units, a redundant Dante interface (primary/secondary), two expansion slots for redundant MADI interfaces (BNC, SC-Duplex, AES10) and four RJ45 antenna connectors. Furthermore, the Base Station shall have an independent RJ45 Ethernet port for remote control and monitoring of the device, which shall be physically isolated from the Audio-over-IP (AoIP) network.

Technical requirements:

Specifications:
RF Channels: 2 (6 or 8 MHz)
Audio connections: up to 128 mobile channels per RF channel
Audio I/O: up to 32 inputs and outputs/ 64 audio links
RF output power: 10 mW – 100 mW, adjustable
Encryption: AES 256
Audio frequency response: 20 Hz – 20 kHz

Connections, displays & controls on the front:
1 x 6.3 mm Headphones (2 × 50 mW RMS @ 32 Ω)
1 x Encoder Headphone Volume
1 x OLED-Display
1 x Jog-Wheel

Connections on the back:
4 x RJ45 Antenna
2 x RJ45 Dante (primary/ secondary)
1 x RJ45 Control/ Remote Control
2 x BNC Wordclock in/ out
2 x SFP+ Cascade (I/O)
2 x IEC PSU
2 x MADI Expansion Slot

Physical Properties:
Maße: 19" x 1U X 373 mm
Weight: approx. 6.3 kg
Material: Metal
Operating temperature: approx. −10 °C to +50 °C
Relative humidity: 25 % - 95 %
Power supply: 100 to 240 V AC, 50/60 Hz
Power consumption: 70 W

Base Station shall include power cord and all necessary small parts.