REDNET 1  
  
The bi-directional Network Audio Interface shall provide 8 input and 8 output channels of connectivity to the Dante network. Inputs/outputs shall be analogue, with internal 24-bit A/D & D/A converters. Converters shall provide user-selectable sample rates of 44.1kHz, 48 kHz, 88.2 kHz, 96 kHz and 192 kHz. Frequency response shall be 20 Hz – 20 kHz +/- 0.05 dB. Dynamic range shall be 119 dB “A” weighted. Electronically balanced inputs and outputs shall be provided on 25-way female Dsub connectors, wired to the AES 59 standard. Internal signals shall be fully balanced throughout. Inputs and outputs shall be programmable for either +18 dBu or +24 dBu signal levels relative to a 0 dBFS digital reference. The system shall use JetPLL technology to minimize conversion jitter. LED front panel indicators shall display the status of Power and Network connections, Sync Lock status, Sample Rate, Input/Output range and Input/Output Signal Level. The Network Audio Interface shall be contained in a 2RU industrial package designed for fixed installation in engineered audio and communications systems. Dimensions shall be 482.6 x 247 x 89mm (19”W x 9.74”D x 3.5”H). It shall weigh 4.12 kg (9.08 lbs). Maximum power consumption shall be 45 VA.  
  
The Network Audio Interface shall utilize the Dante Protocol for transport of digital audio signals. The system shall be capable of transporting up to 512 bidirectional audio channels over a single, standard Gigabit (or higher) Ethernet link. Software shall be provided for the routing, controlling, and configuring the Network Audio Interface. Software shall provide remote control of reference level, selection of preferred master clock, and sample rate. Ethernet connectivity shall be through a rear panel 8p8c/RJ45 LAN port.  
  
Ethernet communications shall be utilized for software control and Interface configuration. Dante technology shall transport digital audio over fast Ethernet, allowing multiple units to share digital audio. The Network Audio Interface shall require connection to an external 100Base-T or 1 Gigabit Ethernet switch. All Dante and Ethernet connections shall be via Cat5e (or better) cable or fiber-optic. Software shall operate on a PC computer, with network card installed, running Windows 7, Windows 8, and Windows 10 or Mac computer, with network card installed, running 10.9.x, 10.10.x, 10.11.x and 10.12.x.  
  
The Network Audio Interface shall be CE marked, UL/C-UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The Digital Audio Platform shall be compliant with EU Directive 2002/95/EC, the RoHS directive.   
  
Warranty shall be 1 year.   
  
The Network Audio Interface shall be Focusrite RedNet 1.