REDNET AM2  
  
The Network Audio Interface shall provide 2 output analogue channels with additional stereo headphone channels of connectivity from the Dante network. Connectivity shall include 2 analogue outputs via two male XLR connectors and 1 ¼” stereo receptacle headphone jack. The Interface shall be capable of syncing to internal word clock or a network master word clock. The Interface shall have user-selectable sample rates of 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz (-4% / -0.1% / +0.1% / +4.167%). Outputs shall have internal 24-bit D/A converters. Frequency response shall be 20 Hz – 20 kHz +/- 0.05 dB. Dynamic range shall be 120 dB “A” weighted for line level signals. Internal signals shall be fully balanced throughout. Outputs shall be programmable for either +18 dBu or +24 dBu signal levels relative to a 0 dBFS digital reference.   
  
The Network Audio Interface shall provide switched network connections to daisy-chain devices together.   
  
Power will be supplied via a 12V 1.2A DC barrel connector or via Power-over-Ethernet (PoE) on network Port 1. The audio interface shall support Gigabit PoE Injectors or PoE enabled network switches.   
  
LED front panel indicators shall display the status of Power, Network Sync Lock, Signal Presence meters and Line Out Mute confirmation. The Network Audio Interface shall be contained in a small industrial package designed for portable use in engineered audio and communications systems. Dimensions shall be 140 x 106.5 x 48.0mm (5.51”W x 4.19”D x 1.89”H). It shall weigh 0.81 kg (1.79 lbs). Maximum power consumption shall be PoE: 11.0 W, DC: 9.8 W (with supplied DC PSU).   
  
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, which supports EtherCON connections.  
  
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 AM2.