REDNET 6  
  
The bi-directional Network Audio Interface shall provide interconnectivity to MADI-compatible devices. The Interface shall support up to 64 input and 64 output channels of connectivity between a Dante network and MADI network. Connectivity shall include MADI Coaxial In and Out on BNC connectors, and MADI Optical In and Out on SC Duplex multi-mode fiber optic connectors. External master word clock in and out shall be via BNC connectors. The Interface shall have user-selectable sample rates of 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz and 192 kHz (-4% / -0.1% / +0.1% / +4.167%).  
  
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, Coaxial or Optical connectivity, Varispeed mode, and clock sources. The Network Audio Interface shall be contained in a 1RU industrial package designed for fixed installation in engineered audio and communications systems. Dimensions shall be 482.6 x 260 x 44.5mm (19”W x 10.2”D x 1.752”H). It shall weigh 3.74 kg (8.25 lbs). Maximum power consumption shall be 30 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 sample rate, selection of preferred master clock, and sample rate conversion. 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 Ethernet, allowing multiple units to share digital audio. The Network Audio Interface shall require connection to an external 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 6.