REDNET D16R  
  
The bi-directional Network Audio Interface shall provide up to 16 input and 16 output channels of connectivity between digital audio devices utilizing the AES/ EBU and S/PDIF formats and the Dante network. Connectivity shall include 16 AES/EBU inputs and outputs via two 25 way female Dsub connectors wired to AES 59 standard, 2 S/PDIF inputs via RCA connector, and 2 S/PDIF outputs via RCA connector. The Interface shall be capable of syncing to internal word clock, local clock source including AES input 1, S/PDIF input, or an external master word clock. 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, 176.4 kHz and 192 kHz (-4% / -0.1% / +0.1% / +4.167%).  
  
The Network Audio Interface shall provide both redundant power and network connections, with the ability to have redundant and switched network modes to run a redundant connection or daisy-chain devices together.  
  
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, and data activity for each group of 8 digital inputs and outputs. 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 263 x 45.5mm (19”W x 10.35”D x 1.752”H). It shall weigh 3.84 kg (8.47 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 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 D16R.