NX-100
The network audio codec shall be IP-addressable and convert analog audio (mic or line level) to standard IP packets for transport over an IP-based network including local area, wide area and the Internet. The device shall be capable of simultaneous transport of audio, serial RS-232 data and contact closures. The device shall support three audio quality modes and have variable sample rate and audio bandwidth with a minimum latency/delay of 20 ms. Multiple error correction modes shall be available to address potential packet loss in high network traffic environments.

The network interface shall be 10BASE-T/100BASE-TX, Auto-Negotiation and utilize the network protocols TCP/IP, UDP, HTTP and RTP. The audio input   shall be balanced, transformer-isolated, MIC/LINE switchable (-58 dBV to 0 dBV, 2k ohms) with adjustable volume control and plug-in screw connector. The audio output shall be balanced, transformer-isolated, (0 dBV, 600 ohms), with plug-in screw connector. Specifications shall include frequency response of 50 to 14k Hz and distortion of under 0.3% (1k Hz, sampling frequency 32k Hz).

The unit shall be capable of Unicast transmission to up to 4 simultaneous units/locations over LAN/WAN/Internet, and Multicast transmission to up to 64 simultaneous units/locations over LAN/WAN. The device shall include Java-based software for configuration, operation and management with password protected access. The device shall include a built-in web server for control and monitoring from any network-based PC with password protected access.

The control inputs shall include 8 channels, no-voltage make contact input, open voltage: 12 VDC, short-circuit current: 10mA with plug-in screw connector. The control inputs shall be individually programmable to initiate and terminate stored transmissions without the need for dedicated PC-based or other control equipment. Each unit shall have twenty programmable distribution presets. The control outputs shall include 8 channels, open collector output, withstand voltage: 30 VDC, control current: 50 mA max. with plug-in screw connector. Adjustable contact off delay time shall be available.

The front panel shall include Link/Active, Full-Duplex/Collision, Status, Error, Run LED indicators plus recessed Reset button. Firmware shall be FLASH-type and upgradeable from any network PC. Power requirements shall be 24 VDC (plug-in screw connector) or AC adapter (optional) with current consumption of 200 mA. The finish shall be black steel plate, 30% gloss. Dimensions (W x H x D) shall be 8.27" x 1.81" x 7.4" (210 x 46 x 188 mm) and weight shall be 2.65 lbs. (1.2 kg).

The network audio adapter shall be TOA model NX-100.
The AC power supply shall be TOA model AD-246.
The rack-mount kits shall be TOA model MB-15B-BK (1 NX-100).
The rack-mount kits shall be TOA model MB-15B-J (2 NX-100).

NX-100S
The network audio codec shall be IP-addressable and convert analog audio (mic or line level) to standard IP packets for transport over an IP-based network including local area, wide area and the Internet. The device shall be capable of simultaneous transport of audio and contact closures. The device shall support three audio quality modes and have variable sample rate and audio bandwidth with a minimum latency/delay of 20 ms. Multiple error correction modes shall be available to address potential packet loss in high network traffic environments.

The network interface shall be 10BASE-T/100BASE-TX, Auto-Negotiation and utilize the network protocols TCP/IP, UDP, HTTP and RTP. The audio input   shall be balanced, transformer-isolated, MIC/LINE switchable (-58 dBV to 0 dBV, 2k ohms) with adjustable volume control and plug-in screw connector. The audio output shall be balanced, transformer-isolated, (0 dBV, 600 ohms), with plug-in screw connector. Specifications shall include frequency response of 50 to 14k Hz and distortion of under 0.3% (1k Hz, sampling frequency 32k Hz).

The unit shall be capable of Unicast transmission to up to 4 simultaneous units/locations over LAN/WAN/Internet, and Multicast transmission to up to 64 simultaneous units/locations over LAN/WAN. The device shall include Java-based software for configuration, operation and management with password protected access. The device shall include a built-in web server for control and monitoring from any network-based PC with password protected access.

The control inputs shall include 8 channels, no-voltage make contact input, open voltage: 12 VDC, short-circuit current: 10mA with plug-in screw connector. The control inputs shall be individually

programmable to initiate and terminate stored transmissions without the need for dedicated PC-based or other control equipment. Each unit shall have twenty programmable distribution presets. The control outputs shall include 8 channels, open collector output, withstand voltage: 30 VDC, control current: 50 mA max. with plug-in screw connector. Adjustable contact off delay time shall be available.

The front panel shall include Link/Active, Full-Duplex/Collision, Signal, Peak, Status, Error, Run LED indicators plus recessed Reset button. Firmware shall be FLASH-type and upgradeable from any network PC. Power requirements shall be AC adapter (optional) with 24 VDC output with current consumption of 200 mA. The finish shall be black steel plate, 30% gloss. Dimensions (W x H x D) shall be 8.27" x 1.81" x 7.4" (210 x 46 x 188 mm) and weight shall be 2.65 lbs. (1.2 kg).

The network audio adapter shall be TOA model NX-100S
The AC power supply shall be TOA model AD-246.
The rack-mount kits shall be TOA model MB-15B-BK (1 NX-100S).
The rack-mount kits shall be TOA model MB-15B-J (2 NX-100S).