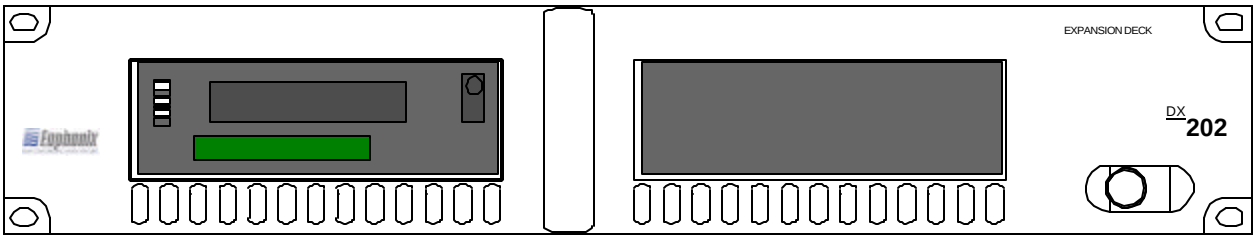

DX202 Manual

Version 1.0
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Euphonix Inc. 220 Portage Avenue Palo Alto , CA 94306
Tel: (650)855-0400 Fax: (650) 855-0410 Web Page: www.euphonix.com

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DX202

Overview

Purpose

The DX202E is offered to provide a rack mount back up solution that is aesthetically compatible with the other R-1 rack mount units. Connected to the Audio Deck, the DX202E mounted Exabyte drives becomes extensions of the Audio Deck SCSI chain.

Features

The DX202 is a 2RU rack mount unit with 2 drive bays. The drive bays can be populated with SCSI drive(s) in Kingston carriers or with Exabyte tape back up unit(s). Shipping configuration are as follows:

DX202

Shipped with empty drive bays, (and 1 blank plug) or
With one SCSI drive and Kingston carrier, (and 1 blank plug) or
With two SCSI drives and Kingston carriers.

DX202E

Shipped with one Exabyte tape back up drive (and 1 blank plug) or
With two mounted Exabyte tape back up drives.

Power is supplied to the SCSI drive(s) or Exabyte(s) by the DX202, and cooling for both drive bays is provided. In either SCSI or Exabyte configuration, the DX202 is connects to the Audio Deck, (or two Audio Decks in the case of a dual Exabyte configuration,) and becomes an extension of the audio Deck SCSI chain.

Applications

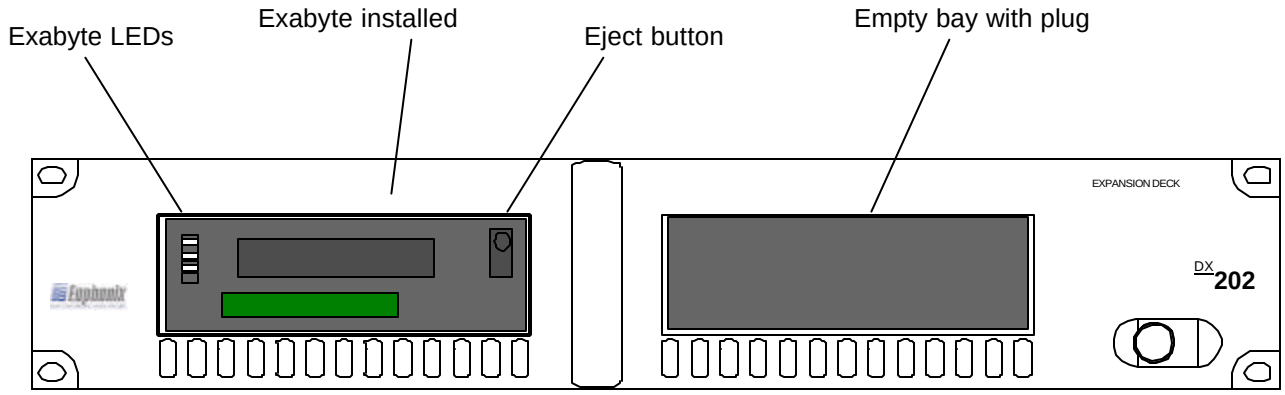
When fitted with SCSI drive(s), the DX202 can be used to increase the number of SCSI drive to which the Audio Deck has access. DX202 mounted SCSI drives will receive the SCSI ID numbers 3, 4 or 5.

For single Audio Deck R-1 systems, the DX202E can be ordered with one Exabyte drive, which can be left permanently connected to the Audio Deck. In R-1 systems with 2 Audio Decks, (coming in version 2.0,) two Exabytes can be configured in the DX202E, allowing simultaneous back up of both Audio Decks. In a 96kHz, 48 track system, 4 Audio Decks are employed and the addition of a second DX202E with 2 Exabytes will allow simultaneous back up of all 4 Audio Decks.

Physical Specifications

Dimensions

Height: 3.5 inches
Width: 19 inches
Depth: 16 inches (17 inches including connector depth
Weight: 17 lbs

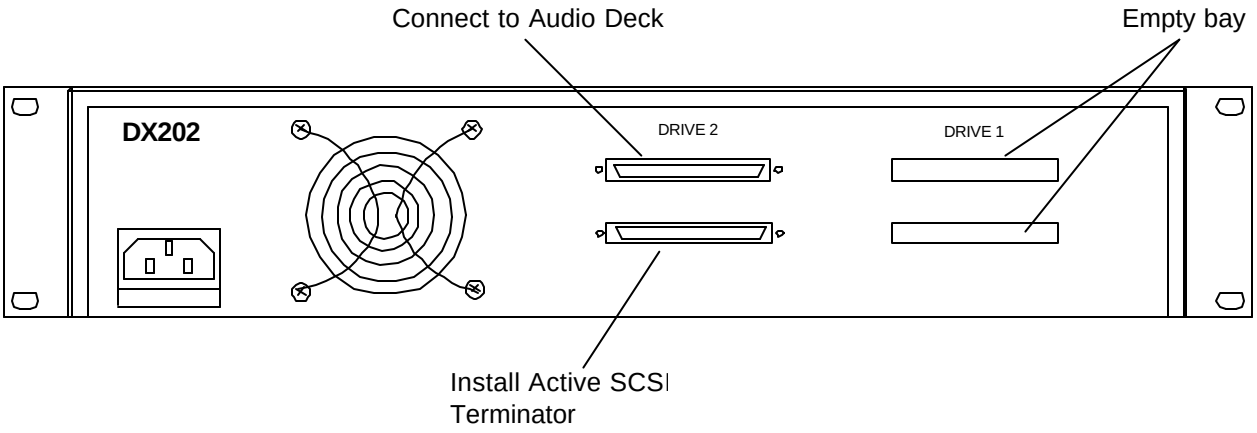


Front Panel

Power Switch On/Off button lights when unit is powered up.

THERE ARE NO USER SERVICEABLE PARTS IN THE CONVERTERS

Rear Panel Connectors



SCSI Connectors (68 pin Wide SCSI Dsub) External connector to internal DX202E SCSI chain. Audio Deck connects here. Do not connect additional SCSI drives here. One connector under Drive 1 and Drive 2 must be fitted with an active SCSI terminator (use terminator from Audio Deck.)

Power Connector (IEC) and Fuse Tray The IEC power connector accepts standard IEC power cords. 110, 220, or 240 VAC, 50 or 60Hz can be applied at this connector.

Technical Specifications

Power Requirements

110, 220, or 240 VAC, 50 or 60Hz.

Environmental Requirements

5 to 35 degrees Centigrade.

Specific Sub-systems or Performance Considerations

SCSI

The DX202E uses SCSI 3 Ultra Wide storage technology. However, the addressing scheme is SCSI 2 as the Audio Deck is designed and optimized for a minimal number of devices. Only two Exabyte Mammoth back up tape drives can be installed – one each bay. Although installed in the same enclosure, the two Exabyte drives are wired on separate SCSI chains, each reporting to the Audio Deck to which it is connected. Each Exabyte is always addressed as SCSI ID#0 , and is displayed as such in the software directories.

Approved Tape Back up Drives and Accessories

Prices are approximate and based on the latest available information at the time of printing.

Backup Tape Drive, Internal

(Internal Mammoth Tape Drive only for mounting in Euphonix DX202E or similar enclosure.)

Generic: Tape Drive, 20GB, 8mm AME, Single Ended, Wide SCSI, 68 pin, External with LCD

Manufacturer: Exabyte Corp. Boulder, CO USA

Web Site: http://www.exabyte.com

Exabyte Family and Series: Mammoth I, 8900 series

Model Number: EXB-8900SWLCD

Part Number: 890211-000 (Black) MSRP $ 3,510.00

Installation Guide: http://www.exabyte.com/home/products.html

Backup Tape Media

Generic: Tape Data Cartridge, 20GB (native), 8mm, AME, 170 Meter

Manufacturer: Exabyte Corp. Boulder, CO USA

Web Site: http://www.exabyte.com (Go to “Media Products” listing for a complete selection)

Model Number: EX-AME 170m

Part Number: 312629-001 MSRP: $74.00 ← Single Tape

Backup Tape Head Cleaning Cartridge

(Note: Head cleaning on Mammoth drives is not required often with AME tapes, Metal Particle tapes require frequent head cleaning)

Generic: Head Cleaning Cartridge, for 8mm Mammoth Drives

Manufacturer: Exabyte Corp. Boulder, CO USA

Web Site: http://www.exabyte.com (Go to “Media Products” listing for a complete selection)

Model Number: EX-Mammoth 18c

Part Number: 315205-001 MSRP: $20.50 ← One Cleaning Cartridge

Backup Tape “Ten-Pack”

Generic: Ten each Tape Data Cartridge, 20GB (native), 8mm, AME, 170 M, one cleaning cartridge, and one DCH.

Manufacturer: Exabyte Corp. Boulder, CO USA

Web Site: http://www.exabyte.com (Go to “Media Products” listing for a complete selection)

Model Number: EXAPAK Mammoth

Part Number: 302827-000 MSRP: $825.00 ← Ten Data Tapes and One Cleaning Cartridge

User Reference

Special Setup Precautions

Care should be taken that SCSI cables or terminators are securely connected to the SCSI ports on the DX202E. Once the cable or terminator has been attached, complete the connection by tightening the securing screws on the cable connector or terminator. The consequences of a compromised connection can include marginal or intermittent SCSI bus behavior. This condition will manifest itself as reading or writing bad data or SCSI devices not being recognized on system power up.

System Setup

When adding a DX202E to an R-1 system,

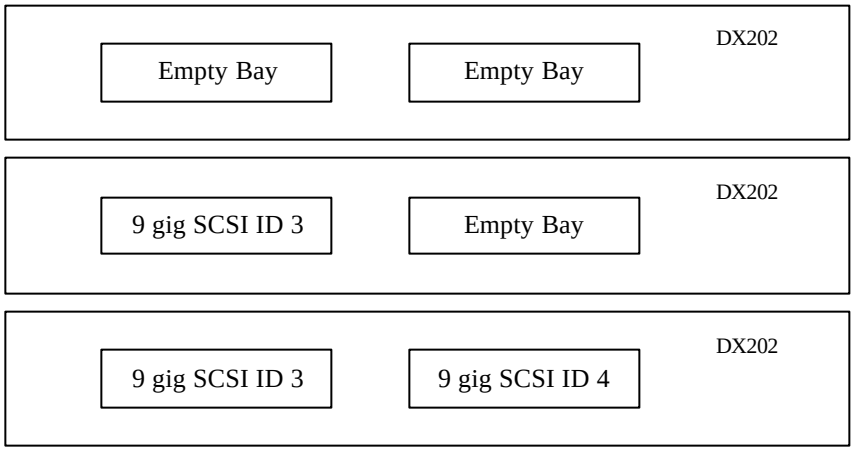
- Remove the SCSI terminator from the Audio Deck External SCSI port
- Use the supplied SCSI cable to make a connection from the Audio Deck External SCSI port to the upper or lower SCSI connector on the DX202E rear panel marked Drive 1 or Drive 2.
- At the same drive position where the SCSI cable is now attached, plug the SCSI terminator into the remaining SCSI port.
- If the DX202E is fitted with 2 Exabyte drives, and each is connected to an Audio Deck, both the Drive 1 and Drive 2 positions on the DX202E must be fitted with a SCSI terminator.

In any R-1 configuration, the DX202E will be at the end of the SCSI chain and must be terminated.

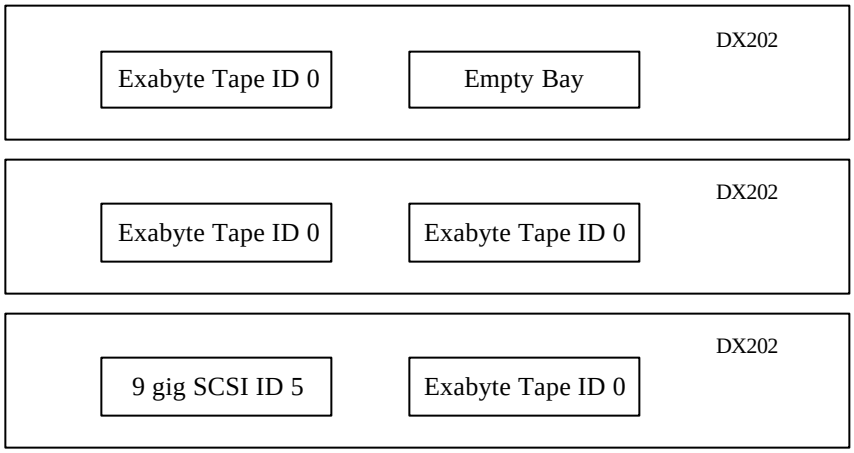
Configuration Options

The DX202 can be ordered in several configurations to expand the recording and/or storage capabilities of your R-1 system.

Configured for SCSI drive use:



Configured for Exabyte back up or Exabyte/SCSI combination



Power On Sequence

Power on the DX202E any time before the Audio Deck is powered up. The Audio Deck will search for connected drives on power up and automatically load recognized drives.

NOTE: The DX202E must always be powered on whenever it is connected the R-1 system and the R-1 is running. As part of the Audio Deck SCSI chain, the DX202E must be active to insure proper termination and performance.