

XAct3000

Sub-½ ATR, Natural Convection- or Conduction-Cooled Network Attached Storage (NAS) System with up to 3.5 TB of Storage

- ▶ Up to 3.5 TB of solid-state storage
- ▶ Storage declassification and ATA secure erase support
- ▶ RAID 0, RAID 1, RAID 5, and RAID 6 configurations
- ▶ 256-bit AES encryption (optional)
- ▶ Two 10/100/1000BASE-T Ethernet ports
- ▶ Sub-½ ATR convection- or conduction-cooled chassis (reduced height and length)
- ▶ Weighs less than 12 lbs.
- ▶ Physical dimensions of 10.30 in. (L) x 4.88 in. (W) x 5.65 in. (H)
- ▶ Environmentally sealed
- ▶ MIL-STD-461 E/F EMI filtering
- ▶ Internal holdup of up to 100 ms at 70 W (optional)
- ▶ Linux BSP
- ▶ Syslog, S.M.A.R.T, SNMP monitoring-SSH, FTP, TFTP, NFS (v3/v4), SMB/CIFS, and Rsync services



XAct3000

The XAct3000 is a rugged, solid-state, network attached storage (NAS) system providing up to 3.5 TB of solid-state storage. This natural convection- or conduction-cooled, fully ruggedized sub-½ ATR system is designed and tested to meet the rigorous standards of MIL-STD-810. The XAct3000 can be configured to provide from 1 TB to 3.5 TB of storage.

Network access is through two 10/100/1000BASE-T front panel ports. The system supports NFS, SMB/CIFS, FTP, SFTP, and HTTP protocols and JBOD, RAID 0, RAID 1, RAID 5, and RAID 6 configurations; the drives are configured as JBODs by default. Once the system is configured, data can be stored and retrieved through any of the supported protocols.

The XAct3000 has the option to provide 256-bit AES encryption utilizing NIST, CSE, and FIPS140-2 certified encryption chips. Encryption keys can be loaded over Ethernet or stored on the system's controller. The controller has a TPM security device for secure storage of the encryption keys. The XAct3000 supports zeroization procedures, meeting both DOD NISPOM 5220.22 and NSA/CSS 9-12 specifications. The time to erase using ATA Secure Erase is approximately 5 seconds, using NSA Erase it is approximately 16 minutes, and using DOD Erase it is approximately 48 minutes. Erase times do not vary based on the amount of storage, from 1 TB to 3.5 TB.

X-ES

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...Always Fast

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Physical Characteristics

- Sub-½ ATR, natural convection- or conduction-cooled chassis (reduced height and length)
- Dimensions: 10.30 in. (L) x 4.88 in. (W) x 5.65 in. (H)
- Boards are inserted in the back of the chassis in a vertical orientation
- Weighs less than 12 lbs. (fully populated)
- Foldable front panel handle

Storage Characteristics

- Up to 3.5 TB of storage
- 256-bit AES encryption (optional, not supported on configurations above 2.5 TB)
- DOD NISPOM 5220.22 declassification support (optional)
- NSA/CSS 9-12 declassification support (optional)
- Write protection
- ATA Secure Erase support

Front Panel I/O

- Two D38999 circular connectors for I/O
- 10/100/1000BASE-T Gigabit Ethernet interfaces
- RS-232 serial links

Software

- Standard software Linux BSP available
- EXT3/EXT4/XFS/JFS filesystem support
- Software RAID, JBOD, RAID 0/1/5/6 support
- Syslog, S.M.A.R.T, SNMP monitoring-SSH, FTP, TFTP, NFS (v3/v4), SMB/CIFS, and Rsync services
- Plugin support (iSCSI, LVM)

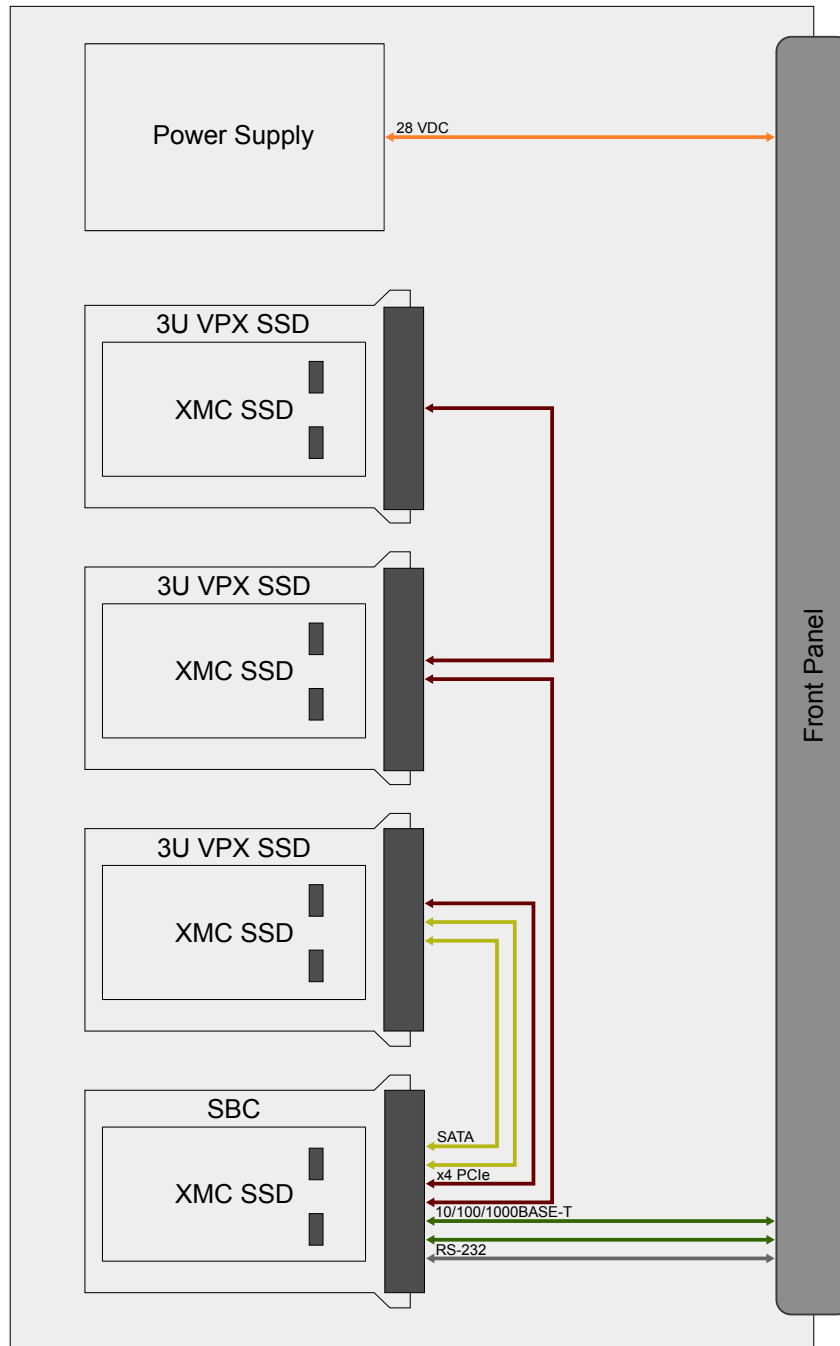
Power Supply

- MIL-STD-704 28 VDC input voltage support
- Integrated MIL-STD-704 28 VDC power supply
- 70 W (3.5 TB and 1000BASE-T Gigabit Ethernet)
- Up to 100 ms internal holdup time at 70 W

Thermal

At 55°C ambient and 200 LFM ambient airflow at sea level

- Maintains 85°C board rail temperatures with up to 105 W total chassis power dissipation
- One high power payload slot at up to 40 W
- Three lower power payload slots at up to 10 W each
- Conduction through the base plate can provide additional cooling



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