



communications

Targa Systems

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Series 4 Removable Disk

Network Attached Storage

Data Transfer System

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Series 4 Removable Disk - Network Attached Storage - Data Transfer System

Series 4 Ethernet Data Transfer Unit (DTU)

Targa System's Series 4 Ethernet DTU is a rugged, field deployed unit providing dual 10/100/1000 Ethernet network interconnections as well as electrical and mechanical infrastructure support for a removable Data Transfer Device.



The DTU, conforming to the ARINC CDU style, the DZUS mount DTUs, K=8 (single disk) and K=12 (dual disk), are equipped with an RTCA-DO-160C, Cat Z compliant 28VDC power supply and two rear panel mount, MIL-C-38999 connectors; J1 for +28Vdc power and additional auxiliary control and status signals; J2 for the dual Ethernet ports .

On the DTU front panel are the DZUS ¼ turn fasteners for unit mounting and the DTD access door(s). Each access door is opened by simply rotating the ¼ turn door latch counter-clockwise. This action releases the door lock mechanism and as the door is opened, an optical sensor is tripped and the DTU executes an orderly power shutdown of the network links, flushing cached data to the DTD and then removing power from the DTD. This is an important feature to meet explosive atmosphere requirements and to avoid data corruption due to operator actions during data write operations. Once the door is open, the DTD is inserted through the front panel aperture and gently pushed into place. The door is locked by simply rotating the latch clockwise.



The S4 NAS DTU's support a broad range of network protocols and capabilities: FTP, TFTP, NFS, SMB-CIFS, HTTP, DHCP, iSCSI, PXE(BOOTP/TFTP).

The S4 NAS DTUs, single and dual removable DTD configuration are as shown above.

Series 4 Data Transfer Device (DTD)

The Series 4 DTD is a rugged, removable media containing a 2.5" Flash SATA drive with capacities up to 256 GBytes. The DTD can be write protected by adding a reflective write protect tab next to the low insertion force DTD connector.

The DTD can be partitioned into multiple "logical" disks which can be assigned to different end users. In addition each partition can also be designated for access as a Network Attached Storage disk for FTP or NFS file transfers or as an iSCSI disk.



Series 4 Ground Station Unit (GSU)

The Series 4 GSU is a desktop, office grade unit providing 10/100/1000 Ethernet network interconnections to ground based data preparation/retrieval computer systems as well as electrical and mechanical support for the removable Data Transfer device.

Dependent on the DTD configuration, data can be transferred to/from the DTD to the host system as Network Attached Storage or as an iSCSI device.

