

SERIES 4 GB ETHERNET DTU — NAS WITH REMOVABLE FLASH DISK



Series 4 Gb Ethernet Data Transfer Unit (DTU) — Network Attached Storage (NAS) with Removable Flash Disk



Targa's Series 4 Gigabit (Gb) Ethernet, Network Attached Storage (NAS), Data Transfer System (DTS) provides a compact self-contained system to store and retrieve data from a removable Serial ATA (SATA) flash disk in the most demanding environments. The data transfer system components are: a Data Transfer Unit (DTU), removable Data Transfer Device (DTD) and Ground Support Unit (GSU).

This lightweight, compact DZUS-mount unit features single or dual removable 256 GB SATA flash disks. that can be easily transported and used interchangeably with any other Targa Series 4 NAS System. In addition to loading/retrieving data, Series 4 NAS DTU servers allow any network device to access the mission, map and maintenance data on removable solid-state flash Data Transfer Devices (DTDs). The standard Series 4 NAS DTU comes with one or two DTDs for a maximum capacity of 512 GB. Each compact DTD weighs only 500 grams and is small enough to fit in a shirt pocket and is built to withstand extremes in temperature, shock and vibration.

Targa Systems' GEN2 DTU now supports data-at-rest encryption via an optional on-chip encryption accelerator supporting 128/192/256 bit AES encryption. Additional features include a sophisticated key management scheme as well as the ability to have multiple independent encryption partitions per disk.



- Small, lightweight, rugged unit providing reliable removable data storage
- Interfaces: two 10/100/1000 Ethernet IEEE 802.3ab ports
- Optional security engine for data encryption
- Data read rates: > 50 MB/sec over FTP
- Single or dual removable disk (DTD) units
- Configurable
 - Simultaneous NAS & iSCSI operations
 - Network bridge between the two Ethernet ports via packet forwarding
 - AES data encryption co-processor option
- Access door with door open detect and DTD power shutdown
- Input power: +28V DC
- Mounting CDU style panel mount (DZUS rail) per MS25212C
- DTD
 - Capacities: 32 GB to 256 GB; 512 GB in Dual-DTD unit
 - With write protect and secure erase features
 - High-reliability connector rated at 100,000 insertion/removals

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MODEL NUMBERS

Model	Description		DTD Support		Power	
	UNIT DESCRIPTION	ENCRYPTION	SINGLE	DUAL	28V DC	AC
DTU40SA-50A-2	Flight Unit - Panel Mount	-	√	-	√	-
DTU40SA-50A-2e		√	√	-	√	-
DTU40SA-52A-2	Flight Unit - Panel Mount	-	-	√	√	-
DTU40SA-52A-2e		√	-	√	√	-
GSU49/SA-50A-0	Ground Unit - Desktop	-	√	-	-	√
GSU49/SA-50A-0e		√	√	-	-	√
DTD40/SA-n-ccc-2	SATA Flash Disk – Data Transfer Device SAn – Flash disk type Capacity where ccc = unformatted capacity in GBytes Available Capacities: 32, 64, 128 and 256 GB e.g., DTD40/SA3-32G-2					

DTU PANEL MOUNT UNITS DTU40/SA-5X-2

		Single DTD	Dual DTD
Physical	Form Factor	K=8 per MS 25221C	K=12 per MS 25221C
	Unit Case	2.9" H x 5" W x 9.5" D	4.4" H x 5" W x 9.5" D
	Front Panel	3.0" H x 5.75" W x .3" D	4.5" H x 5.75" W x .3" D
	Weight (max)	2.3 kg	2.9 kg
Input Power			
28V DC	RTCA D0 160 Cat Z	15 W (max)	20 W (max)

DTD	PHYSICAL
Storage Capacity:	32 GB to 256 GB
Dimensions:	
Width	3" (76 mm)
Length	4.8" (122 mm)
Height	.78" (20 mm)
Weight	< 500 g

Targa's network-attached storage (NAS) device functions as a server dedicated to file sharing. Targa's NAS provides removable SATA Flash disk data storage for single or multi-client users over a dual IEEE 802.3ab Ethernet link.

Supported Protocols	FTP, TFTP, NFS, HTTP, DHCP, iSCSI, PXE (BOOTP/TFTP)		
Data Transfer Rates	FTP	NFS v3	iSCSI
File Reads	50 MB/sec	40 MB/sec	35 MB/sec
File Writes	30 MB/sec	20 MB/sec	35 MB/sec

Average sustained data transfer rates measured with single client over multiple file transfers. Actual end-user data transfer rates will vary depending on network traffic and client system processor loading.

ENVIRONMENTAL

Temperature	Operating	-40 °C to +71° C	MIL-STD-810E, Method 501.3
	Storage	-55° C to +85° C	MIL-STD-810E, Method 502.3
Altitude		50,000 ft	MIL-STD-810E, Method 500.3
Humidity		10–100% condensing	RTCA/DO-160D, Sec 6, Cat B
Shock	Operating	20 g, 9 msec, ½ sine	MIL-STD-810E, Method 516.4
Crash Hazard	Operating	40 g, 9 msec, ½ sine	MIL-STD-810E, Method 516.4
Vibration		PSD 0.04 g ² /Hz, 5–2000 Hz	MIL-STD-810E, Method 514.4, Cat 10
Waterproofness		RTCA DO/160D, Sec 10, Cat W	
Sand & Dust		RTCA DO/160D, Sec 12, Cat D	
Salt Spray		RTCA/DO-160D, Sec 14, Cat S	
EMI		MIL-STD 461, CE102, CS06, CS101, CS114, RE102, RS103	

MORE TARGA SOLUTIONS

Targa's solid-state storage solutions are available in a wide range of form factors and interfaces:

- PC Card DTUs
Serial, SCSI;
Ethernet, USB
- USB Flash Disks 3.5"
- Removable Disk Systems:
Ethernet, SATA, USB

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