

SERIES 4 GB ETHERNET DATA TRANSFER SYSTEM



Network Attached Storage (NAS), Data Transfer Unit (DTU) with Removable Flash Disk



L-3 Targa's 3rd generation 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 Advance Technology Attachment (SATA) flash disk in the most demanding environments. The DTS components are: a Data Transfer Unit (DTU), removable Data Transfer Device (DTD) and a Ground Support Unit (GSU).

This lightweight, compact DZUS-mount unit features single or dual removable SATA flash disks that can be easily transported and used to load and retrieve mission, map and maintenance data. Each compact DTD weighs only 500 grams, is small enough to fit in a shirt pocket and is built to withstand extreme temperature, shock and vibration conditions.

Data-at-rest encryption is available 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.

With this 3rd generation of the Series 4 DTS product, L-3 Targa has doubled the data transfer rates of the previous generation DTS.

KEY FEATURES

- Small, lightweight, rugged unit that provides reliable, removable data storage
- Interfaces: Two 10/100/1000 Ethernet IEEE 802.3ab ports
- Optional security engine for data encryption
- Data read rates: 100 MB/sec. over FTP
- Single or dual removable disk (DTD) units
- Configurable
 - Simultaneous NAS and iSCSI (Internet Small Computer System Interface) operations
 - Network bridge between the two Ethernet ports via packet forwarding
 - Advanced Encryption Standard (AES) data encryption coprocessor option
- Access door with door-open detection and DTD power shutdown
- Input power: +28 VDC
- Mounting: CDU-style, panel-mount (DZUS rail) per MS25212C (military standard)
- DTD
 - Capacities: 60 GB to 960 GB; 2 TB in Dual-DTD unit
 - With write-protection and secure-erase features
 - High-reliability connector rated at 100,000 insertion/removals



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MODEL NUMBERS

Model	Description		DTD Support		Power	
	DESCRIPTION	ENCRYPTION	SINGLE	DUAL	28 VDC	AC
DTU40SA-50B-2	Flight Unit -	-	√	-	√	-
DTU40SA-50B-2e	Panel-Mount	√	√	-	√	-
DTU40SA-52B-2	Flight Unit -	-	-	√	√	-
DTU40SA-52B-2e	Panel-Mount	√	-	√	√	-
GSU49/SA-50B-0	Ground Unit -	-	√	-	-	√
GSU49/SA-50B-0e	Desktop	√	√	-	-	√
DTD40/SAn-ccc-2	SATA Flash Disk – Data Transfer Device SAn – Flash disk type Capacity where ccc = unformatted capacity in GB Available Capacities: 60, 120, 240, 480 and 960 GB e.g., DTD40/SA9-60G-2					

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

	Single DTD	Dual DTD
Physical Form Factor	K=8 per MS25221C	K=12 per MS25221
Unit Case	9.5 in. x 5 in. x 2.9 in. (L x W x H)	9.5 in. x 5 in. x 4.4 in. (L x W x H)
Front Panel	5.75 in. x 3 in. x .3 in. (L x W x H)	5.75 in. x 4.5 in. x .3 in. (L x W x H)
Weight (max)	2.3 kg	2.9 kg
Input Power	28 VDC, RTCA D0-160, Cat. Z 15 W (max)	20 W (max)

L-3'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	100 MB/sec.	100 MB/sec.	70 MB/sec.
File Writes	50 MB/sec.	50 MB/sec.	70 MB/sec.

Average sustained data transfer rates measured with single client over multiple file transfers (MTU 1500). 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 Storage -55 °C to +85 °C	MIL-STD-810E, Method 501.3 MIL-STD-810E, Method 502.3
Altitude	50,000 ft.	MIL-STD-810E, Method 500.3
Temperature Altitude	30 000 ft. -40 °C to +55 °C (10 cycles)	MIL-STD-810, Method 520.0 Procedure III
Humidity	10% to 100% condensing	RTCA DO-160D, Sec. 6, Cat. B
Shock	Operating 20 g, 9 msec, ½ sine	MIL-STD-810E, Method 516.4
Thermal Shock	-35 °C to 49 °C	MIL-STD-810D, Method 503.2
Crash Hazard	Operating 40 g, 9 msec, ½ sine	MIL-STD-810E, Method 516.4
Vibration	PSD 0.04 g ² /Hz, 5 to 2000 Hz	MIL-STD-810E, Method 514.4, Cat. 10
Waterproof	RTCA DO-160D, Sec. 10, Cat. W	
Sand & Dust	RTCA DO-160D, Sec. 12, Cat. D Non-operating +55 °C	MIL-STD-810D, Method 510.2
Salt Spray	RTCA DO-160D, Sec. 14, Cat. S	
Explosive Atmosphere	Operating -35 °C to 49 °C	MIL-STD-810D, Method 503.2
EMI	MIL-STD-461C – CS06 MIL-STD-461E – CE102, CS101, CS114, RE102, RS103, CS115, CS116, RS103	

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DTD	PHYSICAL
Storage Capacity:	60 GB to 960 GB 2 TB in Dual-DTD unit
Dimensions:	
Width	3 in. (76 mm)
Length	4.8 in. (122 mm)
Height	.78 in. (20 mm)
Weight	< 500 g

MORE TARGA SOLUTIONS

L-3'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-in.
- Removable Disk Systems: Ethernet, SATA, USB



Aviation Products

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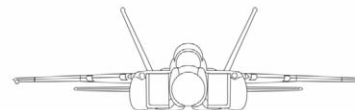
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