

SERIES 4 REMOVABLE FLASH DISK DATA TRANSFER SYSTEM – SATA AND USB



Compact, Rugged Data Transfer Unit (DTU) with SATA or USB Interface



Ground Station Unit



Panel-Mount DTU
SATA or USB



L-3's Series 4 Data Transfer System (DTS), consisting of a Data Transfer Unit (DTU) and a removable Data Transfer Device (DTD), provides a compact, self-contained system to store and retrieve data from 2.5-inch SATA flash disks and is designed to meet the most demanding MIL-STD-810 and RTCA DO-160 environments.

KEY FEATURES

- Capacities: up to 480 GBytes
- High-speed disk erase and sanitize features available
- Small, lightweight, rugged construction providing reliable data storage
- Access door with door-open detection and shutdown function
- DTU interfaces: SATA, USB
- Input power: +28 VDC or +5 VDC
- Mounting: CDU-style, panel-mount (DZUS rail) per MS25212C (military standard)

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DATA TRANSFER UNIT (DTU) & GROUND SUPPORT UNIT (GSU)			
DTU INTERFACE		POWER	MOUNTING
SATA	USB		
DTU40/SA-60-2	DTU40/SA-40-2	+28 VDC	Panel-Mount
DTU40/SA-61-2	DTU40/SA-41-2	+5 VDC	
GSU49/SA-60-0	GSU49/SA-40-0	110 to 220 VAC	Desktop

DATA TRANSFER DEVICE (DTD) REMOVABLE 2.5-INCH SATA FLASH DISKS	
DTD Part Numbers	DTD40/SAn-cccG-2 n = Disk ID (contact Targa for details) ccc = Capacity eg: DTD40/SA9-60G-2
DTD Capacities	60,120, 240 and 480 GB (unformatted capacity in GB)

DTD	PHYSICAL
Storage Capacity	60 GB to 480 GB
Dimensions	
Width	3 in. (76 mm)
Length	4.8 in. (122 mm)
Height	.78 in. (20 mm)
Weight	< 500 g

SATA FLASH DISK DTS		
	Interface	
	SATA 1.5 GHz	USB 2.0
Sustained Read Rate	> 40 MB/sec.	> 10 MB/sec.
Sustained Write Rate	> 30 MB/sec.	> 10 MB/sec.

Transfer rates are dependent on the SATA “disk ID” type and data transfer block size. Rates as stated were measured for a 500 MB transfer using a 16 kB block size.

DTU PANEL-MOUNT UNITS		
Input Power	RTCA D0-160, Cat. Z, 7.5 W max	
+28 VDC	-3% to +5%, 1.5 A max	
+ 5 VDC		
MTBF	35,000 hrs. (preliminary)	
	USB	SATA
Physical		
Form Factor	K=4 per MS 25221C	K=5 per MS 25221C
Unit Case	6.5 in. x 5 in. x 1.4 in. (L x W x H)	6.5 in. x 5 in. x 1.8 in. (L x W x H)
Front Panel	5.75 in. x 1.5 in. (W x H)	5.75 in. x 1.9 in. (W x H)
Weight	875 g max	975 g max
Cable Length	10 ft. max	3 ft. max
Mounting Considerations	Industry standard, all orientations	

ENVIRONMENTAL			
Temperature	Operating	-40 °C to +71 °C	MIL-STD-810E, Method 501.3
	Storage	-55 °C to +85 °C	
Altitude	50,000 ft.		MIL-STD-810E, Method 500.3
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
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		
Salt Spray	RTCA DO-160D, Sec. 14, Cat. S		
EMI	MIL-STD-461 – CE102, CS06, CS101, CS114, RE102, RS103		

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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