

SERIES 4 REMOVABLE FLASH DISK DATA TRANSFER SYSTEMS — SATA AND USB



Compact, Rugged DTU with SATA or USB Interface



Ground Station Unit



Panel Mount Data Transfer Unit (DTU)
SATA or USB



Targa'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" SATA Flash disks and is designed to meet the most demanding MIL-STD-810 and RTCA DO-160 environments.

- Capacities: up to 256 GB
- High-speed disk erase and sanitize features available
- Small, lightweight, rugged construction providing reliable data storage
- Access door with door open detect and shutdown
- DTU Interfaces: SATA, USB
- Input power: +28V DC or +5V DC
- Mounting: CDU-style panel mount (DZUS rail) per MS25212C

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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	+28V DC	Panel Mount
DTU40/SA-61-2	DTU40/SA-41-2	+5V DC	
GSU49/SA-60-0	GSU49/SA-40-0	110 - 220V AC	Desktop



DATA TRANSFER DEVICE (DTD) REMOVABLE 2.5" SATA FLASH DISKS

DTD Part Numbers	DTD40/SAn-cccG-2 n = Disk ID (contact Targa for details) ccc = Capacity eg: DTD40/SA3-64G-2 = 64 GBytes
DTD Capacities	32, 64, 128, 256 GB (unformatted capacity in GBytes)

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

SATA FLASH DISK DTS

	Interface	
	SATA 1.5GHz	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	
+28V DC	5V DC -3% +5%, 1.5 amp max	
+ 5V DC		
MTBF	35,000 hours (preliminary)	
	USB	SATA
Physical Form Factor	K=4 per MS 25221C	K=5 per MS 25221C
Unit Case	1.4" H x 5" W x 6.5" D	1.8" H x 5" W x 6.5" D
Front Panel	1.5" H x 5.75" W	1.9" H x 5.75" W
Weight (max)	2.2 kg	3.2 kg
Cable Length		
Max	10 ft	3 ft
Weight	850 g max	950 g max
Mounting Considerations	Industry standard, all orientations	

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
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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