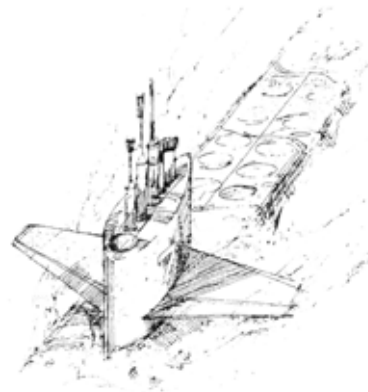


Targa Series 4 – Removable Flash Disk Data Transfer Systems SATA & USB



Overview

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 & Sanitize features available
- Small, lightweight, rugged construction providing reliable data storage
- Locking access door with door open detect & shutdown
- DTU Interfaces: SATA ; USB
- Input Power +28 V_{DC} OR +5 V_{DC}
- Mounting "CDU" style Panel Mount (Dzus rail) per MS25212C



Panel Mount
Data Transfer Unit (DTU)

DTU & GSU Model Numbers

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 - 220 VAC	Desktop



Ground Station Unit

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 in GBytes
 eg: DTD40/SA3-64G-2 = 64 GBytes

DTD Capacities: 32, 64, 128, 256 GBytes
 (unformatted capacity in GBytes)



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Targa's Solid State Storage Solutions are available in a wide range of form factors and interfaces.

- 6U VME SATA; USB; ATA & VME bus I/O
- 6U CPCI SATA; USB; ATA
- PC Card DTU's Ethernet NAS; SATA; USB, Serial and SCSI
- Removable Disk Systems Ethernet NAS; SATA; USB
- 3.5" USB Flash Disks

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Targa Series 4

SATA Flash Disk DTS Specifications

	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 500MB transfer using a 16KB block size.

DTD

Storage Capacity:

Dimensions: Width

Length

Height

Weight:

Physical

32 GB to 256 GB

3" (76 mm)

4.8" (122 mm)

.78" (20 mm)

< 500 g



DTU Panel Mount Units

Input Power +28 V_{DC}
+5 V_{DC}

MTBF

Physical

Form factor

Unit case

Front Panel

Cable Length: Max

Weight

Mounting Considerations:

RTCA-D0-160 Cat Z / 7.5 w max

5 V_{DC} -3% +5%, 1.5 amp max

35,000 hours (preliminary)

USB

SATA

K=4 Per MS25221C

K=5 Per MS25221C

1.4"H x 5"W x 6.5"D

1.8"H x 5"W x 6.5"D

1.5"H x 5.75"W

1.9"H x 5.75"W

10 ft

3 ft

850 g max

950 g max

Industry Standard, All Orientations

Data Transfer System 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 g²/Hz, 5 - 2000 Hz

MIL-STD-810E, Method 514.4, Cat10

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

Specifications are subject to change without notice.

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