SIEMENS

MOBY[®] U Mobile Data Memory - MDS U525

Product Sheet

Version: 01.00 of 12.12.03 A&D PT 7 M2, R. Völler



Description

The MDS U525 is a mobile data memory (MDS) of the MOBY U long range identification system. It offers a large, 32-Kbyte memory and replaceable battery. It is especially designed for use in the automotive industry and other industrial production systems with similar requirements. Very low power consumption ensures a long life of approx. 7 years without changing the battery. Changing the battery lengthens the life of the MDS accordingly. The extremely sturdy, interference-proof MDS can be read and write-accessed at a distance of up to 3 m. Addressing of the MDS U525 is easy with the filehandler familiar from MOBY I (logical file addressing). In addition, the MDS can also be used with only direct memory access. With its transmission frequency in the ISM frequency band at 2.4 GHz, the MDS offers a very high net data transmission speed of approx. 8 Kbytes per second without multitagging and approx. 4 Kbytes per second even with multitagging and two MDSs.

Ordering Data

Product Description	Order No.	L-Price EURO/Unit	AL	ECCN
Mobile data memory MDS U525 with 32- Kbyte memory, replaceable battery, IP 65	6GT2500-5CF10	See FDB.		B.

Technical Data

MDS type	MDS U525			
Identification system	MOBY U			
Fixed code memory	MDS identification number (32 bits)			
Read only memory	128 bits, can be written once by user			
Application memory				
Memory technology	RAM			
Memory size	32 Kbytes			
Memory organization	Byte access, filehandler mode			
Data retention	10 years			
MTBF (at +40°C)	2.5 x 10 ⁶ hours (regardless of battery)			
Read/write cycles	10 ⁷ at +25°C			
Read/write distance	0.15 m to 3 m			
Multitag capability	Yes			
Power supply	Battery	Battery		

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Battery lifespan	≥ 7 years ¹); no changing	
Dattory moopan	≥ 10 years ¹⁾ ; with battery change; > 5 times replaceable	
Shock/oscillation in acc. w. DIN EN	50 g/10 g	
60721-3-7, class 7 M3	00 g/10 g	
Free fall in acc. w. DIN EN 60068-2-32	1 m	
Torsion and bending stress	Not permitted	
Mounting	4 M4 screws	
Battery compartment	on the back; battery cover with 4 screws	
Recommended distance to metal	Can be mounted directly on metal	
Protection rating in acc. w. DIN EN	IP 65	
60529		
Chemical resistance	See configuration manual	
Housing		
Dimensions [L x W x H]	111 x 67 x 23.5	
Color/material	Anthracite/plastic PA 12 GF 25	
Ambient temperature		
During operation	-25°C to +85°C	
During transportation and storage	-40°C to +85°C	
Weight, approx.	100 g	
Certifications	RF: I-ETS 330440+C1:1997	
	SAR: 99/519/EG	
	Safety: EN 60950:2000	
	EMC: EN 301489-01:2000	
	EN 301489-03:2000	
	ENV 50204:1995	
	FCC Part 15C	
	CUL _{US}	
	Safe for pacemakers	

The lifespan depends on several factors - the temperature, the time the MDS remains in the antenna field of the SLG (zones 1 and 2) and the amount of data read/written.

Field Data

	Standard	Minimum	Maxi-	
			mum	
Limit distance (S _q), approx.	2.0 m	0.50 m	3.0 m	Over-the-horizon transmissions can be
Working distance (S _a)	1.4 m	0.35m	2.1 m	actively limited (in 0.5 m steps from 0.5
Transmission window at S _a				m to 3.5 m) by SLG.
Length/width	2.8 m	0.70 m	3.6 m	

The field data apply to reading and writing the MDS together with SLG U92 without FCC certification. Applications with SLG U92 with FCC certification have reduced declarations for the transmission field (see product sheet Read/Write Device – SLG U92 wit FCC).

Dimensional Drawing of MDS U525

