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SIEMENS

MOBY[®] U Mobile Data Memory - MDS U313

Product Sheet Version: 01.00 of 19.09.02 A&D SE PS 3, R. Völler



Description

The MDS U313 is a mobile data memory of the MOBY U long-range identification system. With a storage capacity of 2 Kbytes, it is designed for use in transportation and logistics tasks. Very low power consumption ensures a long life of approx. 5 years. The extremely sturdy, interference-proof MDS can be read and write-accessed at a distance of up to 3 m. The MDS U313 is addressed directly with byte memory accesses. 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 U313 with 2- Kbyte memory	6GT2500-3BD10	See FDB.		

Technical Data

MDS type Identification system	MDS U313 MOBY U	
Identification system		
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	2 Kbytes	
Memory organization	Byte access	
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 lifespan	\geq 5 years ¹⁾ ; no changing	
Shock/oscillation in acc. w. DIN EN	50 g/10 g	
60721-3-7, class 7 M3		
Free fall in acc. w. DIN EN 60068-2-32	1 m	

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Tausian and handing stress	Net rearry the d	
Torsion and bending stress	Not permitted	
Mounting	4 M4 screws	
Recommended distance to metal	Can be mounted directly on metal	
Protection rating in acc. w. DIN EN	IP 67	
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 +70°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	

¹⁾ 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.

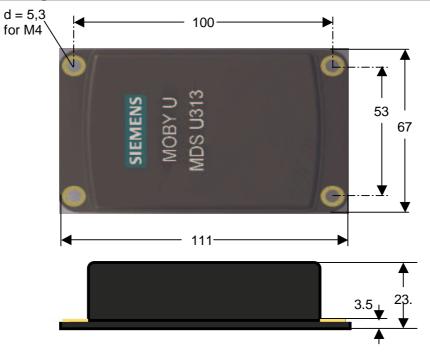
Field Data

	Standard	Minimum	Maxi-	
			mum	
Limit distance (S _g), approx.	2.0 m	0.50 m	3.0 m	Over-the-horizon transmissions can be
Working distance (S _a)	1.4 m	0.35 m	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).

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Dimensional Drawing of MDS U313



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