

MOBY[®] U Mobile Data Memory - MDS U315

Product Sheet

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Description

The MDS U315 is a mobile data memory of the MOBY U long-range identification system. With a storage capacity of 2 Kbytes and replaceable battery. It is designed for use in transportation and logistics tasks. Very low power consumption ensures a long life of approx. 5 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. The MDS U315 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 U315 with 2-Kbyte memory, replaceable battery, IP 65	6GT2500-3BF10	See FDB.		DB.

Technical Data

MDS type	MDS U315		
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	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	≥ 5 years ¹⁾ ; no changing		

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> 10 years 1); with battery change; > 5 times replaceable 50 a/10 a Shock/oscillation in acc. w. DIN EN 60721-3-7, class 7 M3 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 Anthracite/plastic PA 12 GF 25 Color/material Ambient temperature -25°C to +70°C **During operation** 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 $_{C}UL_{US}$ Safe for pacemakers

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	0.35 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).

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.

Dimensional Drawing of MDS U315

