

product type designation

MDS U525 transponder

-- spare part -- MOBY U mobile data memories MDS U525, 32 KB RAM, replaceable battery, IP65, -25 to +85 °C, 111x 67x 23.5 mm .



suitability for operation

MOBY U

radio frequencies

operating frequency	2400 ... 2435 MHz
range / maximum	3 m; Range adjustable in reader in steps of 0.5 m
protocol / with radio transmission	ISO 18000-4
transfer rate / with radio transmission / maximum	384 kbit/s
product feature / multitag-capable	Yes
polarization	Circular

electrical data

product component / backup battery	Yes
product feature / replaceable battery	Yes
battery life / typical	8 a

memory

type of memory	RAM
storage capacity / of the user memory	32768 byte
type of memory organization	UID (fixed code) 4 bytes, OTP: 16 bytes, user memory 32768 bytes
number of read cycles / at ambient temperature < 40 °C / maximum	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	1E+14
data retention time / at ambient temperature < 40 °C / not less than	8 a

mechanical data

material	PA 12 GF 25
color	anthracite
tightening torque / of the screw for securing the equipment / maximum	0.8 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm

ambient conditions

ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-25 ... +85 °C
• during storage	-40 ... +85 °C
protection class IP	IP65
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	500 m/s²
vibrational acceleration	100 m/s²
resistance to mechanical stress	Free fall 1 m

design, dimensions and weights

width	67 mm
height	23.5 mm
depth	111 mm
net weight	100 g
fastening method	4 x M4 screws

product features, product functions, product components / general

product feature	
• silicon-free	Yes

standards, specifications, approvals

certificate of suitability	RF: EN 300440-2, SAR: EN 50371, safety: EN 60950-1, EMC: EN 301489-01, EN 301489-03, ENV 50204, FCC Part 15C (USA), cULus, safe for heart pacemakers
certificate of suitability	
• IECEx	No
MTBF	285 a

further information / internet links

internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Approvals / Certificates

General Product Approval	EMV	Radio Equipment Type Approval Certificate
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Radio Equipment Type Approval Certificate	Environment
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