

Product type designation

MDS U525 transponder

MOBY U Mobile data memory 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 y
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	10000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum	1000000000000000
Data retention time / at ambient temperature < 40 °C / not less than	8 y

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	
<ul style="list-style-type: none"> during read/write access 	-25 ... +85 °C
<ul style="list-style-type: none"> outside the read/write area 	-25 ... +85 °C
<ul style="list-style-type: none"> 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/s ²
Vibrational acceleration	100 m/s ²
Resistance to mechanical stress	Free fall 1 m
Width	67 mm
Height	23.5 mm
Depth	111 mm
Net weight	100 g
Mounting type	4 x M4 screws

Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> IECEX 	No
MTBF	285 y

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/ident/rfid
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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