SIEMENS

Data sheet 6GT2500-5BF20

product type designation	**MDS U Service transponder**
	- - spare part - - MOBY U transponder MDS U service, 32 KB RAM, 2 LEDs, on/off switch, replaceable battery, IP40, -25 to +70 °C, 111x 67x 23.5 mm.



suitability for operation	MOBY U
product brand name	SIMATIC RF
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	1 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	1 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 ... +70 °C
● outside the read/write area	-25 ... +70 °C
● during storage	-40 ... +85 °C
protection class IP	IP40
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	500 m/s²
vibrational acceleration	100 m/s²

Subject to change without notice
© Copyright Siemens

resistance to mechanical stress	Free fall 1 m
design, dimensions and weights	
width	67 mm
height	23.5 mm
depth	111 mm
net weight	120 g
fastening method	4 x M4 screws
product features, product functions, product components / general	
display version	2 LEDs
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
EAC	CE EG-Konf.	China RoHS	Manufacturer Declaration	Miscellaneous	KC

last modified: 1/14/2026

Subject to change without notice
© Copyright Siemens