

product type designation

Transponder RTLS4083T, FCC

SIMATIC RTLS Transponder RTLS4083T, plus, UWB/phase, FCC.



suitability for operation

RTLS4000 with UWB, phase technology

Technical Product Detail Page

<https://l.siemens.com/1P6GT2700-5DC15>

radio frequencies

operating frequency / 1	3100 ... 7000 MHz; depending on the country approvals
range / 1 / maximum	30 m; Range information for open air applications; always follow the manual
accuracy of localization / 1	
• typical	0.1 m
protocol / 1 / with radio transmission	IEEE 802.15.4-2015 HRP UWB
transfer rate / 1 / with radio transmission / maximum	850 kbit/s
operating frequency / 2	2400 ... 2480 MHz; depending on the country approvals
range / 2 / maximum	50 m; Range information for open air applications; always follow the manual
accuracy of localization / 2	
• typical	3 m
protocol / 2 / with radio transmission	IEEE 802.15.4
transfer rate / 2 / with radio transmission / maximum	1000 kbit/s

electrical data

type of voltage supply	Li-ion battery rechargeable, charging contacts
product component / backup battery	Yes
product feature / replaceable battery	No
battery life / typical	1 a; standby mode: 1 year, UWB localization in 1 second cycle: 6 months, display update in 10 second cycle: 25 days

memory

type of memory	FLASH
type of memory organization	memory for 5 background images, 20 fonts and 20 text fields for 58 characters each
number of write cycles / at ambient temperature < 40 °C / maximum	100000
data retention time / at ambient temperature < 40 °C / not less than	20 a
property of memory	Configuration memory

mechanical data

material	PC
color	Ti gray

ambient conditions

ambient temperature	
• during read/write access	0 ... 40 °C
• outside the read/write area	-10 ... +50 °C
• during storage	-10 ... +50 °C
ambient condition / for operation	temperature for display operation 0 to 40 °C, on charging: 10 to +40 °C

protection class IP	IP65
design, dimensions and weights	
width	95 mm
height	13.8 mm
depth	64.6 mm
net weight	85 g
fastening method	Cable ties, mounting clips
product features, product functions, product components / general	
display version	1 two-color LED, 2.7" ePaper display with 296 x 128 pixels
operator element version	1 function key
product feature	
• silicon-free	Yes
standards, specifications, approvals	
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	4.98 kg
• during manufacturing	4.85 kg
• during operation	0.08 kg
• after end of life	0.05 kg
accessories	
accessories	charging station, mounting clips
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• 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
security information	
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Approvals / Certificates

General Product Approval	Environment
	
	
	

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