

product type designation

Transponder RTLS4083T, FCC

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



suitability for operation

RTLS4000 with UWB, phase technology

product brand name

SIMATIC RTLS

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
- outside the read/write area
- during storage

0 ... 40 °C

-10 ... +50 °C

-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	64.59 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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[Manufacturer Declaration](#)



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