

product type designation

Transponder RTLS4083T, Plus

SIMATIC RTLS Transponder RTLS4083T, plus, UWB, phase, ETSI



suitability for operation

RTLS4000 with UWB, phase technology

product brand name

SIMATIC RTLS

Technical Product Detail Page

<https://l.siemens.com/1P6GT2700-5DC05>

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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