

SIMATIC RTLS transponder RTLS4083T, UWB, phase, CMIIT, minimum order quantity: 5 units.



suitability for operation

RTLS4000 with UWB, phase technology

Technical Product Detail Page

<https://l.siemens.com/1P6GT2700-5DC23>

radio frequencies

operating frequency / 1	6000 ... 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	IP54

design, dimensions and weights	
width	95 mm
height	13 mm
depth	62 mm
net weight	85 g
fastening method	Cable ties, mounting clips
product features, product functions, product components / general	
operator element version	1 two-color LED, 2.7" ePaper display with 296 x 128 pixels
product feature	
<ul style="list-style-type: none"> 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]	
<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	4.98 kg 4.85 kg 0.08 kg 0.05 kg
accessories	
accessories	charging station, mounting clips
further information / internet links	
internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to web page: identification and localization systems to web page: SiePortal to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	https://www.siemens.com/tstcloud https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
Approvals / Certificates	
General Product Approval	Radio Equipment Type Approval Certificate
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Dangerous goods	Environment

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