

product type designation

Transponder RTLS4083T

SIMATIC RTLS transponder RTLS4083T, UWB, phase (minimum order quantity 5 units)



suitability for operation

RTLS4000 with UWB, phase technology

radio frequencies

operating frequency / 1	3100 ... 7000 MHz
range / 1 / maximum	30 m; Range information for open air applications; always follow the manual
accuracy of localization / 1 • typical	0.2 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
range / 2 / maximum	50 m; Range information for open air applications; always follow the manual
accuracy of localization / 2 • typical	1 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 y; 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 y
property of memory	Configuration memory

mechanical data

material	PC
color	Ti gray

ambient conditions

ambient temperature • during read/write access	0 ... 40 °C
---	-------------

<ul style="list-style-type: none"> • outside the read/write area • during storage 	-10 ... +50 °C
ambient condition / for operation	-10 ... +50 °C
protection class IP	temperature for display operation > 0 °C, when loading: 10 °C to 40 °C
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	
display version	1 two-color LED, 2.7" ePaper display with 296 x 128 pixels
operator element version	1 function key
product feature <ul style="list-style-type: none"> • silicon-free 	Yes
accessories	
accessories	charging station, mounting clips
further information / internet-Links	
Internet-Link <ul style="list-style-type: none"> • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	http://www.siemens.com/simatic-rtls https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
last modified:	12/16/2020 