## **SIEMENS**

Data sheet 6GT2800-4AC00

product type designation

## RF360T transponder

SIMATIC RF300 Transponder RF360T EPOXY card, 8 KB FRAM, IP67, -25 to +70 °C, 85x 54x 2.5 mm, Minimum order quantity 10 units.



protector of with radio transmission	suitability for operation	RF300
range / maximum 150 mm; range is reader dependent: observe http://support.automation.siemens.com/WWi/view/en/67384964 protocol / with radio transmission R300-specific protocol feature / multitag-capable Yes  clectrical data product feature / multitag-capable Yes  clectrical data product component / backup battery No memory  Type of memory FRAM / EEPROM storage capacity / of the user memory 8189 byte UID (fixed code) 4 bytes, user memory 8189 bytes, OTP memory 20 bytes number of read cycles / at ambient temperature < 40 °C / maximum 1641 archenton time / at ambient temperature < 40 °C / maximum 1641 archenton time / at ambient temperature < 40 °C / maximum 1641 archenton time / at ambient temperature < 40 °C / most fixed or a storage capacity of memory 1642 archenton time / at ambient temperature < 40 °C / most fixed or a storage capacity of memory 1642 archenton time / at ambient temperature < 40 °C / most fixed or a storage capacity of memory 1642 archenton time / at ambient temperature < 40 °C / not less fixed or a storage capacity of memory 1642 archenton time / at ambient temperature < 40 °C / not less fixed or a storage capacity of memory 1642 archenton fixed fixed or an archenton fixed	radio frequencies	
http://support.automation.siemens.com/WW/view/en/67384964 protocol / with radio transmission   RF300-specific   transfer rate / with radio transmission / maximum   106 kblt/s   product feature / multitag-capable   Yes   olocitrical data   product component / backup battery   No   memory   Type of memory   FRAM / EEPROM   storage capacity / of the user memory   8189 byte   Type of memory organization   UID (fixed code) 4 bytes, user memory 8189 bytes, OTP memory 20 bytes   Te+10   maximum   number of read cycles / at ambient temperature < 40 °C / maximum   tadata retention time / at ambient temperature < 40 °C / not less than   property of memory   mechanical data   material   Epoxy resin   color   anthracite   mounting distance / relating to metal surfaces / recommended / minimum   ambient conditions   ambient conditions   ambient emperature	operating frequency / rated value	13.56 MHz
transfer rate / with radio transmission / maximum product feature / multitag-capable olectrical data product component / backup battery No memory  Type of memory ype of memory storage capacity / of the user memory type of memory organization number of read cycles / at ambient temperature < 40 °C / maximum data retention time / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than property of memory mechanical data  Epoxy resin color mounting distance / relating to metal surfaces / recommended / minimum ambient conditions ambient temperature • during read/write access • outside the read/write area • during storage • during storage protection class IP shock resistance with a color messions and weights width  55 mm height  55 mm height  100  FRAM / EEPROM FRAM / E	range / maximum	
product feature / multitag-capable  product component / backup battery product component / backup battery type of memory  type of memory  type of memory  type of memory  type of memory organization umber of read cycles / at ambient temperature < 40 °C / maximum number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write area  • during read/write area  • during read/write area  • during read/write area  • during storage  protection class IP  shock resistance  your session  shock acceleration  your session and weights  width  session  stress to mechanical stress  design, dimensions and weights  width  session  stress to mechanical stress  design, dimensions and weights  width  session  stress to mechanical stress  design, dimensions and weights  width  session  stress to mechanical stress  design, dimensions and weights  with  height	protocol / with radio transmission	RF300-specific
product component / backup battery  memory  type of memory  storage capacity / of the user memory  storage department of the OTP memory of the other memory  storage capacity / of the user memory 20 bytes  storage department of the OTP memory  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage capacity / of the user memory 20 bytes  storage memory 20 bytes  storage memory 21 bytes  storag	transfer rate / with radio transmission / maximum	106 kbit/s
product component / backup battery  memory  type of memory  type of memory  type of memory organization  type of memory organization  proper of write cycles / at ambient temperature < 40 °C / maximum  number of read cycles / at ambient temperature < 40 °C / maximum  number of write cycles / at ambient temperature < 40 °C / maximum  number of write cycles / at ambient temperature < 40 °C / not less than  property of memory  Block-by-block write protection of the OTP memory  mechanical data  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  during read/write access  outside the read/write area  during storage  protection class IP  shock resistance  shock acceleration  fresistance to mechanical stress  Continuous torsion and bending stress not permissible  design, dimensions and weights  width  beight  FRAM / EEPROM  81889 byte  108  11840 byte  118410  128410  1849 byte  1840 b	product feature / multitag-capable	Yes
type of memory storage capacity / of the user memory type of memory organization number of read cycles / at ambient temperature < 40 °C / maximum number of write cycles / at ambient temperature < 40 °C / maximum data retention time / at ambient temperature < 40 °C / not less than property of memory mechanical data  material color mounting distance / relating to metal surfaces / recommended / minimum ambient temperature of unting read/write access outside the read/write area outside the read/write area outside the read/write area outside the read/write area outside relation shock resistance According to DIN EN 60721-3-7 Class 7 M3 shock acceleration vibrational acceleration resistance to mechanical stress continuous torsion and bending stress not permissible design, dimensions and weights width beight  55 mm length  FRAM / EEPROM  8189 bytes 8189 bytes, OTP memory 1E+10  1E+10  1E+10  1E+10  1E+10  1E+10  attraction and stress outside write protection of the OTP memory 1D a thread 1D a th	electrical data	
type of memory storage capacity / of the user memory type of memory organization UID (fixed code) 4 bytes, user memory 8189 bytes, OTP memory 20 bytes number of read cycles / at ambient temperature < 40 °C / maximum number of write cycles / at ambient temperature < 40 °C / maximum data retention time / at ambient temperature < 40 °C / not less than property of memory Block-by-block write protection of the OTP memory mechanical data material color mounting distance / relating to metal surfaces / recommended / minimum ambient conditions ambient temperature	product component / backup battery	No
storage capacity / of the user memory  type of memory organization  number of read cycles / at ambient temperature < 40 °C / maximum  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  Block-by-block write protection of the OTP memory  mechanical data  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  during read/write access  during storage  during storage  protection class IP  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  vibrational acceleration  proper of memory  Block-by-block write protection of the OTP memory  mechanical data  ### 10	memory	
type of memory organization  number of read cycles / at ambient temperature < 40 °C / maximum  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  Block-by-block write protection of the OTP memory  mechanical data  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  during read/write access  outside the read/write area  during storage  rotesistance  functional cases IP  shock resistance  shock acceleration  your side short short side of the other memory 20 bytes  tento  10 a  10	type of memory	FRAM / EEPROM
number of read cycles / at ambient temperature < 40 °C / maximum  number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  mechanical data  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access  • outside the read/write area  • during storage  • during storage  protection class IP  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  vibrational acceleration  resistance to mechanical stress  design, dimensions and weights  width  55 mm  height	storage capacity / of the user memory	8189 byte
maximum number of write cycles / at ambient temperature < 40 °C / maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory Block-by-block write protection of the OTP memory  mechanical data  material color anthracite  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature • during read/write access • outside the read/write area • during storage protection class IP shock resistance According to DIN EN 60721-3-7 Class 7 M3 shock acceleration vibrational acceleration  resistance to mechanical stress  design, dimensions and weights width beight  10 a  10 a  11 a  12 a  14 0 a  15 a  16 a  17 5 °C  20 mm  18 5 °C  40 +85 °C  19 67  500 m/s²  continuous torsion and bending stress not permissible  design, dimensions and weights width 55 mm  height	type of memory organization	UID (fixed code) 4 bytes, user memory 8189 bytes, OTP memory 20 bytes
maximum  data retention time / at ambient temperature < 40 °C / not less than  property of memory  mechanical data  material  color  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area  • during storage  protection class IP  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  vibrational acceleration  resistance to mechanical stress  continuous torsion and bending stress not permissible  design, dimensions and weights  width  beight		1E+10
than property of memory Block-by-block write protection of the OTP memory  mechanical data  material Epoxy resin color anthracite  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature • during read/write access • outside the read/write area • during storage protection class IP IP67 shock resistance According to DIN EN 60721-3-7 Class 7 M3 shock acceleration vibrational acceleration 200 m/s² resistance to mechanical stress Continuous torsion and bending stress not permissible  design, dimensions and weights width height  55 mm height	·	1E+10
material Epoxy resin color anthracite  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage  protection class IP  shock resistance shock acceleration vibrational acceleration  resistance to mechanical stress  material  Epoxy resin anthracite  20 mm  21 mm  22 mm  23 mm  24 mm  25 +75 °C  40 +85 °C  40 +85 °C  1P67  Shock resistance According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  200 m/s²  vibrational acceleration 200 m/s²  resistance to mechanical stress Continuous torsion and bending stress not permissible  design, dimensions and weights  width height 2.5 mm		10 a
material Epoxy resin color anthracite  mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage protection class IP shock resistance shock acceleration vibrational acceleration vibrational acceleration resistance to mechanical stress  material  Epoxy resin anthracite 20 mm  20 mm  -25 +75 °C -25 +75 °C -40 +85 °C	property of memory	Block-by-block write protection of the OTP memory
color mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature	mechanical data	
mounting distance / relating to metal surfaces / recommended / minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage protection class IP  shock resistance  shock acceleration  vibrational acceleration  resistance to mechanical stress  design, dimensions and weights  width height  20 mm  2	material	Epoxy resin
minimum  ambient conditions  ambient temperature  • during read/write access • outside the read/write area • during storage • during storage  protection class IP  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  yibrational acceleration  resistance to mechanical stress  Continuous torsion and bending stress not permissible  design, dimensions and weights  width  height  2.5 mm	color	anthracite
ambient temperature  • during read/write access  • outside the read/write area  • during storage  • 240 +85 °C  protection class IP  IP67  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  500 m/s²  vibrational acceleration  200 m/s²  resistance to mechanical stress  Continuous torsion and bending stress not permissible  design, dimensions and weights  width  55 mm  height  2.5 mm		20 mm
<ul> <li>● during read/write access</li> <li>-25 +75 °C</li> <li>● outside the read/write area</li> <li>-40 +85 °C</li> <li>● during storage</li> <li>-40 +85 °C</li> <li>protection class IP</li> <li>shock resistance</li> <li>According to DIN EN 60721-3-7 Class 7 M3</li> <li>shock acceleration</li> <li>500 m/s²</li> <li>vibrational acceleration</li> <li>200 m/s²</li> <li>resistance to mechanical stress</li> <li>Continuous torsion and bending stress not permissible</li> <li>design, dimensions and weights</li> <li>width</li> <li>bight</li> <li>55 mm</li> <li>height</li> <li>2.5 mm</li> </ul>	ambient conditions	
<ul> <li>● outside the read/write area</li> <li>-40 +85 °C</li> <li>protection class IP</li> <li>shock resistance</li> <li>According to DIN EN 60721-3-7 Class 7 M3</li> <li>shock acceleration</li> <li>vibrational acceleration</li> <li>200 m/s²</li> <li>resistance to mechanical stress</li> <li>Continuous torsion and bending stress not permissible</li> <li>design, dimensions and weights</li> <li>width</li> <li>binn</li> <li>binn</li></ul>	ambient temperature	
● during storage  protection class IP  IP67  shock resistance  According to DIN EN 60721-3-7 Class 7 M3  shock acceleration  vibrational acceleration  vibrational acceleration  200 m/s²  resistance to mechanical stress  Continuous torsion and bending stress not permissible  design, dimensions and weights  width  beight  55 mm  height	<ul> <li>during read/write access</li> </ul>	-25 +75 °C
protection class IP shock resistance According to DIN EN 60721-3-7 Class 7 M3 shock acceleration 500 m/s² vibrational acceleration 200 m/s² resistance to mechanical stress Continuous torsion and bending stress not permissible design, dimensions and weights width 55 mm height 2.5 mm	<ul> <li>outside the read/write area</li> </ul>	-40 +85 °C
shock resistance shock acceleration shock accelerat	during storage	-40 +85 °C
shock acceleration 500 m/s²  vibrational acceleration 200 m/s²  resistance to mechanical stress Continuous torsion and bending stress not permissible design, dimensions and weights  width 55 mm height 2.5 mm	protection class IP	IP67
vibrational acceleration     200 m/s²       resistance to mechanical stress     Continuous torsion and bending stress not permissible       design, dimensions and weights     55 mm       height     2.5 mm	shock resistance	According to DIN EN 60721-3-7 Class 7 M3
resistance to mechanical stress  Continuous torsion and bending stress not permissible  design, dimensions and weights  width  beight  55 mm  2.5 mm	shock acceleration	500 m/s <sup>2</sup>
design, dimensions and weights  width 55 mm height 2.5 mm	vibrational acceleration	200 m/s²
width55 mmheight2.5 mm	resistance to mechanical stress	Continuous torsion and bending stress not permissible
height 2.5 mm	design, dimensions and weights	
<u> </u>	width	55 mm
depth 86 mm	height	2.5 mm
	depth	86 mm

net weight	25 g
fastening method	2 x M3 screws, mounting bag (see accessories)
product features, product functions, product components / general	
product feature	
• silicon-free	Yes
• printable	No
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
cULus approval	Yes
MTBF	1200 a
accessories	
accessories	Fixing strap, spacer
further information / internet links	
internet link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul><li>to website: Industrial communication</li></ul>	http://www.siemens.com/ident/rfid
<ul><li>to website: Industry Mall</li></ul>	https://mall.industry.siemens.com
<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com

last modified:

8/29/2023