

PRODUCT DATASHEET

iID[®] Transponder

TIE19-TAG

HF-RFID transponder as cable tie for industrial environmental conditions

- passive RFID communication 13.56 MHz
- cable tie module 19 x 19 mm
- EPOXY packaging with standard cable tie
- re useable mounting
- 1 kbit up to 64 kbit memory
- designed for item and object tagging, especially for electronic cable and plastic or metal tubes

These transponder devices are an integral part of *microsensys* iID[®] system solutions. They are working optimal with *microsensys* standard RFID reader components and high sensitive demodulators.



microsensys GmbH
In der Hochstedter Ecke 2
D 99098 Erfurt

TEL +49-361-59874 0
E-MAIL info@microsensys.de
FAX +49-361-59874 17
WEB www.microsensys.de

microSensys
RFID in motion

This data sheet is subject to change
contact [microsensys](mailto:info@microsensys.de) for latest information

TIE19-TAG 002

RFID Technology:	closed coupling RFID system iID [®] 2000/3000, ISO 15693 or 14443
Chip Type:	SLI-X, iID [®] X, iID [®] G, iID [®] K others on request
Carrier Frequency:	13.56 MHz
Communication Rate:	down link 26.4 kbps or 106 kbps
Communication Distance:	0 ... 25 mm dependent on reader antenna, chip type and metal environment
Memory:	EEPROM endurance >10 ⁵ cycles, data retention > 10 (50) years FRAM endurance >10 ¹² cycles, data retention > 10 years
Memory Capacity:	1, 2, 16, 64 kbit available
Special Functionality:	iID [®] X type is X ray suitable, see data sheet of chip manufacturer
Operating Temperature:	-25°C ... +65°C
Storage Temperature:	-45°C ... +85°C high temperature on request
Dimensions:	approx. 19 x 19 mm ² , total TH approx. 7 mm,
Packaging Material:	EPOXY for transponder module EPOXY material in black, other colours on inquiry
Protection Class:	IP67
Marking:	laser printed
Appropriate RFID Reader:	PEN reader with RS232TTL, USB or Bluetooth interface, POCKET reader with USB and Bluetooth interface especially for mobile data capture UNI13 or Q10 13.56 MHz read write module, for <i>microsensys</i> OEM partner only
HOST Command Set:	see actual API documentation of <i>microsensys</i> iID [®] driver engine or data sheets of silicon chip manufacturer
Software:	different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de

Type:	12.32.700	12.47.760*	12.54.700	12.82.790*	12.26.700	*on inquiry
Special Features:	-	extreme long life	-	Xray suitable	high security	
Chip Type:	EM4135	SLIX	iID-G	iID-X	iID-K	
RF Standard:	ISO 15693	ISO 15693	ISO 15693-2	ISO 15693	ISO 14443-B	
Memory:	2; E ² PROM	1; E ² PROM	16; E ² PROM	16; FRAM	64; E ² PROM	kbit
Data Retention:	>10	>50	>10	>10	>10	years
Commun. Rate:	26.4	26.4	26.4	26.4	106	kbps
Write Time:	5	5	5	<0.5	5	ms