

TM4270

Data Sheet

Features



RC550X Controller specs:

- 1000 tag simultaneous identification
- 100 tag/sec. identification rate
- UHF operating frequencies
- Multi-tag compatibility
- Unique communication interface
- Internal Buzzer
- Real-Time operating system (RTOS)
- Security, encrypted data transfer

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v.1.7 (11/05)

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Compatibility Performance

Typical Transmission range	Up to 50m free range / 20m indoors
Data rate	2.4 to 19.2 Kbs (programmable)
Transmission rate – ID only 2 Bytes @ 19'200 Baud rate	Up to 5'000 UID's per second
Transmission rate –128 bit data packets @ 57'600 Baud rate (UID + data)	Up to 1'000 UID's per second
Stability/Filter (Data Integrity)	8 or 16 bit CRC

Communication

Base Frequency	868MHz (EC) or 915MHz (US) ISM Band
Modulation	FSK
Frequency Deviation	30 to 180 KHz
Modulation Polarity	" +" or " -" (software selectable)
Channels	4096 per base frequency
Frequency/Channel hopping	Programmable (factory preset)
Number of antennas	1
Maximum transmit power	
TM 4700	3 dBm max.
TM 4271	8 dBm max.
Anti-collision	
Transmitters	Time base algorithm
Transceivers	" Rx before Tx" technology
Certification	EN 300 220 (EC); FCC part 15 (US)

Micro controller

Flash Memory	2 Kb
Data RAM	64 Bytes
EEPROM Data	128 Bytes

Electrical

Powering	Exchangeable Lithium battery CR2032
Voltage	3.2 to 2.2 Volts
Battery Lifetime	Typically 5 years (with battery low warning and AAA batteries fitted)
Power consumption	
Active:	15 mA max. (during RF transmit operations)
Idle:	1.5 mA
Stand by:	4 uA (wake-up timer enabled)

Environmental

Operating temperature	-20°C to +85°C
Storage temperature	-20°C to +85°C
Humidity	5% to 90% (non condensing)

Physical

Dimensions (incl. Housing)	80 x 30 x 8 mm
Weight	40 grams
Colour (Housing)	Blue
Type of material	ABS