

TM4300

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)

TM4300

Compatibility

TM, TC family

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 4300

3 dBm max.

TM 4301

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

2 x AAA batteries mounted on the
bottom side

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

62 x 25 x 12 mm

Weight

20 grams

Colour (Housing)

White, Grey, black

Type of material

ABS