Architect & Engineer Specification

RF TINY Proximity Card Reader
Oct 15, 2009

1   Introduction
The intent of this document is to describe the specification of RF TINY Proximity Card Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2   Description
The RF TINY Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. The RF TINY shall be successfully installed on metal door frame and mullion. Combined with Starwatch Dual, iTDC Pro, Standard, or Enterprise software, the RF TINY shall provide easy yet secure access control solution.

3   Mechanical Specification
3.1   The RF TINY Proximity Card Reader shall measure 1.77" x 3.35" x 0.6" (45 x 85 x 15.5mm).
3.2   The RF TINY shall have a dark pearl gray body
3.3   The RF TINY shall weight 80g (Packaged weight for shipping shall be 100g)

4   **Electrical Specification**
4.1   The RF TINY Proximity Card Reader shall indicate its status through red and green LED and buzzer.
4.2   The RF TINY shall operate on 12V. Max 180mA.
4.3   The RF TINY shall have 125KHz frequency.

5   RFID reader Specification
5.1   Reading range of the RF TINY shall vary depending on the types of the card that are used. The RF TINY shall accept following proximity cards with stated reading range.
  5.1.1   Passive cards those are stated below shall operate with the RF TINY and shall have declared reading range.
    5.1.1.1   IDC 80 card (ISO credit card size and thickness) shall have 4inch (10 Cm) reading range.
    5.1.1.2   IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
    5.1.1.3   IDK 50 key tag shall have 2 inch (5 Cm) reading range.
    5.1.1.4   IMC 125 coin shall have 2 inch (5 Cm) reading range.
  5.1.2   Active cards that are stated below shall operate with the 100R and shall have declared reading range.
    5.1.2.1   IDA 150 active card shall have 12inch (30 cm) reading range.
    5.1.2.2   IDA 200 active card shall have 15inch (40 cm) reading range.
5.2   The RF TINY shall have PSK modulation**.**
5.3   The RF TINY shall have Reverse power polarity protection
5.4   The RF TINY shall have supervisory signal optionally

6   Communication Specification
6.1   The RF TINY shall provide 26bit Wiegand and optional RS232 and ABA Track ll magnetic stripe format

7   Environmental Specification
  7.1   Operating Temperature
    7.1.1   The RF TINY shall operate temperature between -35˚ C ~ +65˚ C.
  7.2   Operating Humidity
    7.2.1   The RF TINY shall operate humidity between 10% ~ 90% RH(Non-condensing)
  7.3   The RF TINY shall be 100% weather proof.

8   Certification and Approvals
  8.1   The RF TINY shall have following certification
    8.1.1   FCC certification
    8.1.2   UL certification
    8.1.3   CE certification
    8.1.4   MIC certification

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