

# UHF INTEGRATED READER

## IDT-87 IN

Designed using Impinj E710 module



Linux



IP 68



Impinj E710  
Module



UHF RFID



LED



IDT 87 IN is our most advanced integrated reader. It contains a RFID Reader and an antenna within the same enclosure. It is designed using an Impinj E710 chip, which gives the device its impeccable performance especially in ETC applications. It has an advanced antenna design which is tailored for automatic vehicle identification applications. The reader is designed to read only in the area it is meant to read, thereby reducing all counts of crossline read and tailgating. Its waterproof design makes it the best choice for Parking Lot Management, ETC, Warehouse Management, Employee Student Tracking, Vehicle Management and others.

### PHYSICAL PARAMETERS

|                |  |
|----------------|--|
| Dimensions     | 298mm x 298mm x 105mm                                  |
| Weight         | 2800 gm  |
| Interfaces     | Rs232, RS485, Weigand26/34 (TCP/IP & WIFI Optional)LED |
| Indicators     | & Buzzer   |
| Housing        | Aluminium Housing with Engineering Plastic Cover       |
| Mounting Style | 100mm x 100mm VESA M6 Hole                             |

### ENVIRONMENTAL SPECIFICATION

|                  |  |
|------------------|--|
| Temperature      | -40°C to +60°C (Operating), -40°C to +60°C (Storage) |
| Protection Class | IP 68  |

### ARCHITECTURE

|              |                                  |
|--------------|----------------------------------|
| Processor    | Arm CORTEX M4 CORE MCU           |
| POE          | Power Over Ethernet (Optional)   |
| Power Supply | Wide Voltage Input (+9V to +24V) |

## UHF RFID

|                               |   |
|-------------------------------|---|
| <b>Operating Frequency</b>    | Standard ISM 865-867 MHz (IND), 865-868 MHz (EU), 902-928 MHz (US)                    |
| <b>Air Interface Protocol</b> | ISO18000-6B, EPC Class 1 Gen2 (ISO18000-6C)   |
| <b>Read Range</b>             | Up to 18 meters   |
| <b>Output Power</b>           | 0 dBm to 30 dBm   |
| <b>Antenna</b>                | Built In Circular 9 dBi Antenna   |
| <b>External Antenna</b>       | 1 External Antenna Port Optional  |
| <b>RFID Module</b>            | Impinj E710   |
| <b>SDK</b>                    | Provided DLL and Demonstration Software Source code to Facilitate Further Development |
| <b>External Control</b>       | 2 Nos. Built In Relays (GPIOs) 4, Optically isolated                                  |
| <b>Operation Mode</b>         | Answer, Active, Trigger   |
| <b>Frequency Hopping</b>      | FHSS or Fixed Frequency Transmission (Supports RSSI)                                  |

## ORDER INFORMATION

|                    |               |
|--------------------|---------------|
| <b>Part Number</b> | IDT.UHF.87 IN |
|--------------------|---------------|

## ACCESSORIES



Power Adapter

## APPLICATION AREA



Parking Lot Management



Electronic Toll Management



Warehouse Management



Employee/ Student Tracking



Vehicle Access Management



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The product specifications and descriptions listed in the specification sheet are subject to change anytime without notice.

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