vertexpi

# UHF LONG-RANGE RFID READER

## Industrial RFID Reader for

## Vehicle & Gate Automation

Long-Range • Fast • Contactless • Reliable

Automatically identify RFID-tagged vehicles from a distance and enable seamless vehicle detection for industrial and automated access applications.



## Ideal For

- Mines
- Stone Crushers
- Factories
- Warehouses
- Logistics
- Entry & Exit Gates



# PRODUCT + KEY FEATURES

## SMART RFID IDENTIFICATION

### Built for Fast & Contactless Vehicle Detection

The **VertexPi UHF Long-Range RFID Reader** enables automatic identification of RFID-tagged vehicles from a distance, helping reduce manual intervention and improve vehicle movement across industrial environments.

Designed for reliable performance and flexible integration, the reader can connect with a range of automation and identification systems.

## KEY FEATURES

### Long-Range Vehicle Identification

Automatically identifies RFID-tagged vehicles from a distance for fast and contactless vehicle detection.

### Fast & Reliable Reading

Enables quick RFID tag detection to reduce manual entry and vehicle waiting time.

### Anti-Collision Technology

Supports reliable identification when multiple RFID tags are present within the reading area.

### Multiple Communication Interfaces

Supports suitable interfaces including **RS232, RS485, Wiegand and Ethernet**, depending on the configured model.

### UHF RFID Technology

Compatible with appropriate **UHF EPC Gen2 / ISO 18000-6C RFID tags**, subject to the selected reader configuration.

### Industrial & Outdoor Deployment

Designed for demanding industrial and outdoor applications.



# APPLICATIONS + AUTOMATION

## DESIGNED FOR INDUSTRIAL APPLICATIONS



### Mines

Reliable vehicle identification for demanding mining environments.



### Stone Crushers

Automate vehicle detection and streamline movement at industrial sites.



### Factories

Support automated vehicle identification across factory premises.



### Warehouses

Enable fast and contactless vehicle identification at operational entry and exit points.



### Logistics Facilities

Improve vehicle movement and identification across logistics operations.



### Vehicle Entry & Exit Gates

Enable automated identification of RFID-tagged vehicles at controlled access points.

# AUTOMATION INTEGRATION

## CONNECT RFID WITH YOUR AUTOMATION SYSTEM

The VertexPi UHF RFID Reader can be integrated with:

**Boom Barriers**
Automated vehicle entry & exit control

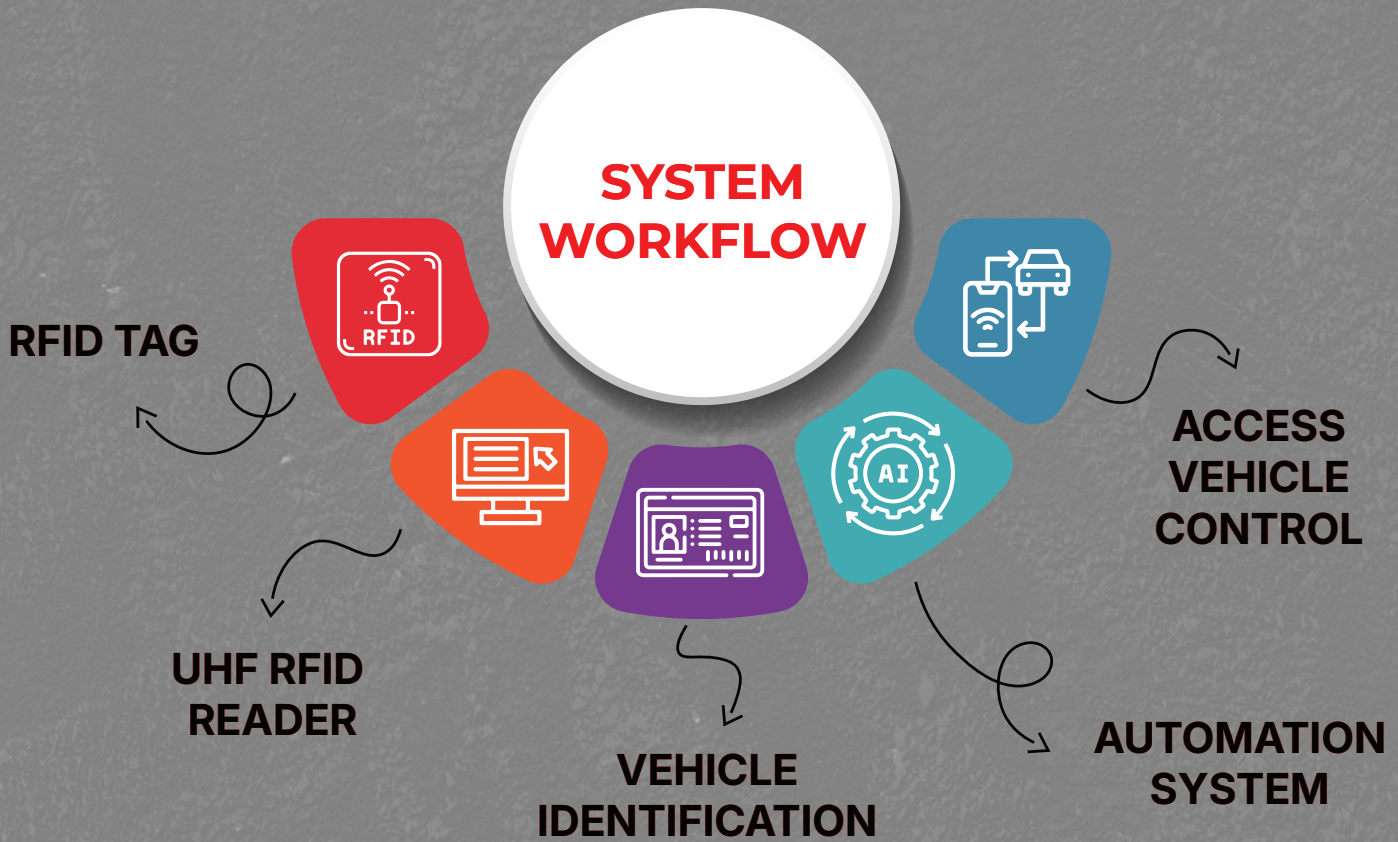
**Traffic Lights**
Vehicle movement indication

**LED DISPLAYS**
Visual information and status display

**CCTV / IP Cameras**
Vehicle and access monitoring

**Sensors**
Vehicle presence detection

**Weighbridge Systems**
RFID-based vehicle identification



# TECHNICAL + SOFTWARE INTEGRATION

FLEXIBLE CONNECTIVITY

## MULTIPLE INTERFACE OPTIONS

### RS232

Serial communication for compatible industrial systems.

### RS485

Reliable communication for industrial automation environments.

### WIEGAND

Integration with compatible access-control systems.

### ETHERNET

Network-based connectivity for supported configurations.

Available interfaces depend on the selected reader configuration/model.

## SOFTWARE INTEGRATION

### Ready to Connect with Your Existing System

The RFID Reader can be integrated with existing **VertexPi Weighbridge, e-Ravanna and vehicle automation solutions**, enabling RFID-based vehicle identification within connected operational workflows.

### RFID READER

→ Vehicle Identification
→ Software System
→ Automated Operation



# WHY UHF LONG-RANGE RFID?



**CONTACTLESS**

Identify vehicles without manual interaction.



**FLEXIBLE**

Multiple communication interfaces support different integration requirements.



**FAST**

Quick RFID tag detection helps reduce waiting time.



**RELIABLE**

Anti-collision technology supports dependable tag identification.



**INDUSTRIAL READY**

Suitable for demanding industrial and outdoor applications.

## VERTEXPI UHF LONG-RANGE RFID READER

**AUTOMATE IDENTIFICATION. SIMPLIFY VEHICLE MOVEMENT.**


**VERTEXPI TECHNOLOGY PVT. LTD.**

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