

## Smart RFID Fixed Reader



### Built for Precision and Business Profitability

The Unitech RS700 UHF RFID Reader is designed to increase inventory visibility, efficiency and business profitability. Supporting a global frequency range of 860MHz - 960MHz, the RS700 is capable of reading and writing all tags that conform to the EPC Global Gen2 and ISO18000-6C standards. The RS700 also includes integrated middleware that facilitates the accelerated installation and deployment of RFID projects.

### Flexible Integrated IT Solutions

The Unitech RS700 middleware features Smart Reader Server (SRS) and Smart Reader Server Remote Control (SRSRC). Various reader settings, such as read, write and report generation, can all be managed remotely using SRSRC. The data management and filtering capabilities of the RS700 SRS serve to alleviate most data read loading problems and keep network traffic flowing smoothly. In addition, the RS700 is easily integrated into current IT infrastructures through Microsoft BizTalk Server, Oracle Sensor Edge Server and other leading database systems.

### Comprehensive Support Package

To meet the needs of various IT environments, the Unitech RS700 provides accurate data transmission from client to host, including a CCX compatible 802.11b/g solution, Ethernet, USB and RS232. The RS700 offers antenna options for various reading environments, and provides support for up to 8 channels and 4 reading points.

### Rugged Design Increases Uptime

The RS700's durable design and IP65-rated environmental enclosure ensure high performance in harsh conditions. This means maximum device uptime, reduced repair costs, and an overall lower cost of ownership. Supported by a built-in 4000mAH backup battery, the Unitech RS700 provides for data backup and smooth operational functionality.

### Main Features

- Powered by Windows CE 5.0 Professional
- Integrated RFID Middleware with remote control capability
- Supports frequency range of 860MHz - 960MHz, EPC Global Gen2, ISO18000-6C
- Supports Dense Reading Mode (DRM)
- Supports up to 4 antenna and 8 channels
- Supports Power over Ethernet (POE)
- Supports 802.11b/g, CCX Compatible
- Supports Ethernet, USB, RS232
- 64MB Flash, 128MB SDRAM, 2G SD memory card built-in
- IP65-rated for portal reading applications

## Specifications

### ► System

Operating System	Microsoft CE 5.0 Professional
CPU	Intel Processor 520MHz
Memory	64MB Flash, 128MB SDRAM, 2GB Memory
Power source	Main power source: Adapter 12V, 3A Back up battery: Built-in 4000mAH

### ► Reader Performance

Frequency	860MHz ~ 960MHz
Power output	1W (reader module), Up to 4W (with antennas)
Tag Support	EPC C1G2, ISO18000-6C
Antenna	Supports for up to 4 reading points and 8 channels
Reading Range	Up to 6 meters, dependent upon tag and antenna power
Middleware	<ul style="list-style-type: none"> <li>• SRC (Smart Reader Server): Built-in System; Supports data filtering, smoothing</li> <li>• SRSRC (Smart Reader Server Remote Controller): Remotes controllable though PC,</li> <li>• Supports EPC Global Standard ALE (Application Level Event)</li> <li>• Supports Microsoft BizTalk Server 2006 R2</li> <li>• Oracle Sensor Edge Server</li> <li>• IBM WebSphere RFID Server</li> </ul>

### ► Communication

Data Transaction	Wired: Ethernet, USB, RS232 Wireless: 802.11b/g, CCX compatible
Reader Indicator	Green: Power Yellow: Reading or Writing Red: Data Transmission

### ► Mechanical

IP Rating	IP65
Dimension	252 x 57.7 x 185.3mm (L x H x W)
Weight	1750 g

### ► Environmental

Temperature	Operating: -20°C to 50°C Storage: -30°C to 60°C
Humidity	5% to 95% RH non-condensing

### ► Software Development Tool

Microsoft Embedded Visual Tools  
Unitech RS700 Middleware SDK

### ► Accessories

Standard package	GPIO cable, Power cable with RS232 cable, USB cable, RJ45 cable, power cord, power adapter and Wi-Fi Antenna
Optional	
Antenna Cable	Reader to Antenna, TCN connector, 24 feet
RFID Antenna	Patch Circular Antenna 30*30 or 19*19cm Linear Antenna 30*30 or 19*19cm Shelf Antenna 240*22cm (Site survey recommended for proper antenna installation)

### ► Regulatory

FCC, NCC, CCC, CE, TELEC, RoHS Compliant

### ► Available Models

RS700 -11A2DG  
RS700 -11E2DG  
RS700 -11J2DG



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