



# Long Range Active RFID Reader XT-210 433.92Mhz Datasheet

**Applications:** Baby & Infant Monitoring, Hands Free Access Control, Vehicular Gates & Barriers, Personnel Monitoring, Asset Monitoring, Emergency Evacuation, Health & Safety, Disabled Access, Time and Attendance, Patient Monitoring and Many More

## Description

The Xtag Long Range Reader and associated active tag technology allows system builders to easily integrate solutions into existing or new build projects to prevent unauthorised movement of subjects to outside a "safe" area.

The reader is small & discreet and is totally range adjustable for many differing applications. Ranges of up to 25 metres within buildings can be easily achieved. The installer does not have to install complex antennae or perform any costly ground works as the unit can utilize a choice of off the shelf antenna for simple set up within different scenarios.

Xtag readers and tags carry all the necessary type certification.



XT-210 Surface Mount Reader

## Reader Specification

### Electrical Specifications

Supply Voltage	8-15VDC
Current Consumption	<100 mAmps
LED's	5
Local Changeover relay (X2)	2A 28Vdc non inductive Form C

### RF Specifications

Range (Internal Whip Antenna)	Up to 25 Metres
Operating Frequency	433.92 Mhz
Modulation	FM (FSK)
External Antenna Impedance	50 Ohm
Sensitivity	105dBm
Max RF Input	20dBm
IF Bandwidth	230KHZ

### Environmental

Operational Temperature	-10° C to +60°C
Storage Temperature	-10° C to +70°C
Humidity	5% to 80% (non condensing)

External locations will require a sealed IP66 electrical enclosure (non-metallic) for the reader.

### Physical Specifications

IP Rating	IP54
Enclosure	ABS Composite
Enclosure dimensions	200 X 112 X 30mm

### Data Interfaces

RS485 (maximum 32 per network)	Full Duplex 4-wire 1200m
IP	Requires additional interface
RS232	
Weigand	

## Features

- ◆ Reading range adjustable 3 – 25 metres
- ◆ Compatible with Xtag active RFID tags
- ◆ Simple set-up and operation
- ◆ Supplied with internal antenna
- ◆ Multiple tag in field reading capability
- ◆ Secure tag to reader protocol
- ◆ RS485 network compatible
- ◆ RS232 compatible
- ◆ Weigand output compatible
- ◆ 8 – 15 Volt DC operation, low current design
- ◆ Diagnostic LED's
- ◆ Wireless exempt 868.95Mhz technology

Compliant with the EMC and R&TTE directives governed by the UK Radio Interface Requirement.



EN 301489 P1  
Emissions &  
Immunity.  
R&TTE 203

Classified as a Class 2 Security Product



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