



ImproX iTAR

Product Specification Catalogue

The **ImproX (TAR) Industrial Time Attendance Remote Reader** is a compact Tag Reader designed for use with the following Terminals in the IXP220 and ImproNet Access Control Systems: the ImproX (iTRT) Twin Remote Terminal, the ImproX (MfT) Multi-function Terminal and the ImproX (TA) Time Attendance Terminal.

The Remote Reader includes a single tone Buzzer, volume adjustable to any one of these four levels (off, low, medium and high). The Remote Reader includes a single bi-coloured Red or Green Status LED. You can set the functions of the Buzzer and Status LED to suit the needs of your application.

For time and attendance, the Remote Reader includes a 16-character by 1 line Liquid Crystal Display (LCD) and a 4-button numeric Keypad for entering Reason Codes. The back-lighting for the Liquid Crystal Display (LCD) and the Keypad remains permanently on; however, you can adjust the Display's contrast in 8 discrete steps.

The Remote Reader is intended for indoor or outdoor use.

Key Features

- Tag Read function for the following read-only Tags: Slim Tags, Omega Tags.
- Tag Read/Write function for the Philips HITAG™ 1 and Philips HITAG™ 2 Read/Write Tags.
- A 16-character, single-line Liquid Crystal Display (LCD).
- A 4-button Keypad.
- A single bi-coloured Red or Green Status LED. The Status LED is software-configurable via the Communications Protocol.
- A single-tone, 4-level volume (including off) adjustable Buzzer.
- Added anti-tamper protection when you attach the enclosures Lid and Base using the TORX® Fasteners (M4 x 20 mm).

ImproX (iTAR)

(Industrial Time Attendance Remote Reader)

XTA907-1-0-GB-XX

Reading Range (Tag)

Tag Type	Typical Range (Minimum) (mm)	Typical Range (Minimum) (in)
ImproX Credit Card Tag	25 - 50	1 - 2
ISO Credit Card (Slim)	25 - 50	1 - 2
ImproX Round Tag	25 - 50	1 - 2
Philips HITAG™ 1	25 - 50	1 - 2
Philips HITAG™ 2	25 - 50	1 - 2

NOTE: Mounting the Reader on a metallic surface will reduce the Tag Read/Write range slightly.

Physical Specifications

Part Number

Length	:	145 mm (5.70 in).
Width	:	220 mm (8.66 in).
Height	:	57 mm (2.24 in).
Approximate Weight	:	795 g (1.75 lb).
Housing Material	:	Polycarbonate Plastic.
Colour	:	Light Grey.

Environmental Specifications

Operating Temperature	:	-15°C to +60°C (+5°F to +140°F).
Storage Temperature	:	-40°C to +80°C (-40°F to +176°F).
Humidity Range	:	0 to 95% relative humidity at +40°C (+104°F) non-condensing.

Approvals

CE Approval	:	EN55022, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6 and IEC61000-4-8.
FCC Approval	:	Pending.
Dust & Splash Resistance	:	The Remote Reader is designed to work in an indoor or outdoor environment, similar to IP55. The Remote Reader is, therefore, sealed against water.
Drop Endurance	:	1 m (3.28 ft) drop (in packaging).

Electrical Specifications

Power

Input Voltage	:	5 V DC, polarity sensitive.
Power Requirements		
	Current (mA)	Power (W)
Supply Voltage 5 V Indicators ON, Back-lighting ON	: 130	0.65
Permissible Input Supply Ripple Voltage (Max)	:	1 V _{pp} at 50 Hz.
Power Input Protection	:	Reverse polarity protection is provided on the Remote Reader.



Remote Bus Port

Electrical Interface	: TTL full duplex.
Baud Rate	: 9 600.
Data Format	: 8 data bits, no parity, 1 stop bit.
Communications Protocol	: ImproX Proprietary Protocol.

User Interfaces

Buzzer

Volume	: Software adjustable in four discrete steps (including off).
Tones	: Single tone.

Liquid Crystal Display

Characters	: 16 Characters by 1 line.
Character Sets	: English, Katakana.
Contrast	: Software adjustable in 8 discrete steps via the Communications Protocol.
Back-lighting	: Permanently on.

Keypad

Buttons	: 4 Buttons, used for entering Reason Codes.
Back-lighting	: Permanently on.

Status Indicator

Status LED	: Bi-colour Red or Green LED (externally visible). The functions are application specific.
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Related Information

For extra information relating to this product refer to the:

- ImproX iTAR Hardware Installation Manual (XTA305-0-0-GB-XX).

Ordering Information

Order the ImproX (TAR) Time Attendance Remote using the following Part Number:

- XTA907-1-0-GB-XX: ImproX (iTAR) Industrial Time Attendance Remote Reader.

Warranty Details

This product conforms to our Warranty details on www.impro.net.

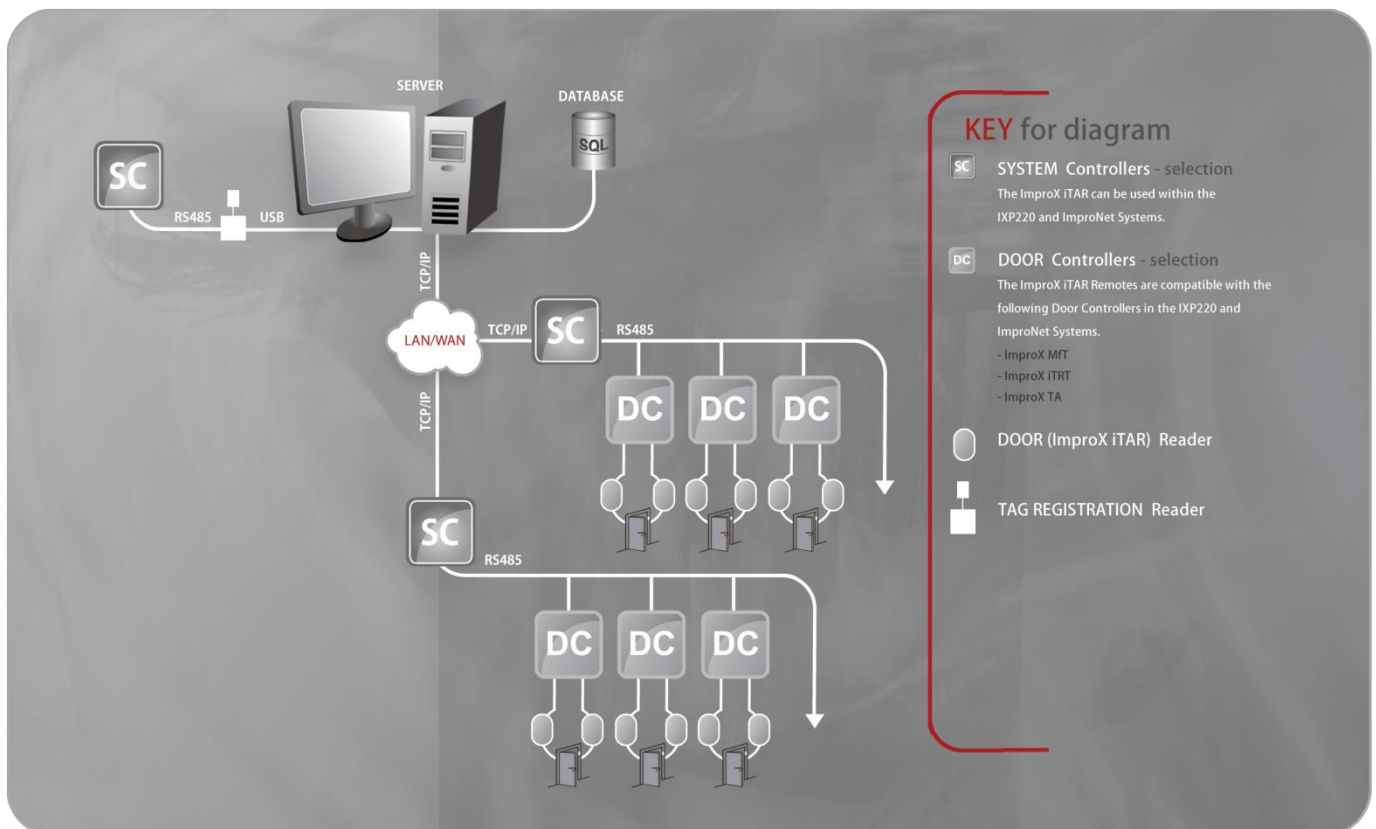


Figure 1: ImproX iTAR System Overview

This Product Specification Catalogue applies to the ImproX (iTAR) Industrial Time Attendance Remote Reader, XTA907-1-0-GB-00.
(The last two digits of the Impro stock code point to the issue status of the document or product).

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