

Hirsch uTrust TS Readers

Ordering Guide

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Hirsch uTrust TS Readers

Introduction

This document describes the features and ordering process for Hirsch uTrust TS Readers for physical access systems. It covers all models of mullion, wall mount, and keypad readers. This document does not include ScramblePad products.

1.1. Audience

This guide is designed to help Hirsch resellers understand the models, features, and benefits of the uTrust TS Reader product line. It includes specific instructions on how to order the right model to meet specific requirements.

Hirsch uTrust TS Readers Description

- Overview

The Hirsch uTrust TS Reader product line is a family of high-quality door readers with a consistent modern look that meet the requirements for existing PACS systems and new installations. Hirsch offers a consistent look and feel from basic proximity-only models up to the latest highly secure, government-certified FICAM solutions. The bright LED display and large active area make it popular with end users.

The uTrust TS Readers offer unmatched features, such as the highest level of environmental protection of any PACS reader (up to IP65) and compatibility with the widest range of proximity credentials. All uTrust TS Readers include tamper sensing. These readers are a natural complement for Hirsch systems, for the Hirsch/Cisco CPAM/ICPAM systems, as well as for third party systems supporting industry standards including Wiegand, RS-485, and OSDP.

1.2. Versions

1.2.1. Advanced Readers

Hirsch uTrust TS Advanced Readers support a wide range of 13.56 MHz high frequency credentials. These readers deliver the highest security level when used with Hirsch TS Cards. They also support card serial number (CSN) reads for MIFARE Classic, DESFire, iClass, PIV, ISO 14443B, and other HF credentials. uTrust TS Advanced Readers are available in configurations that provide Card Authentication Key (CAK) authentication compliant with U.S. federal government FICAM standards.

1.2.2. Proximity Readers

For installations that exclusively use proximity cards, Hirsch offers TS Proximity Readers configured to only read 125 KHz cards. These readers have the same modern look-and-feel as the other uTrust TS Readers. The high level of

compatibility these readers have with most of the proximity credentials is a result of Hirsch's many years of experience with credentials, including Hirsch Electronics and SCM Microsystems.

1.2.3. Migration Readers

Hirsch's TS Migration Readers include all of the features of both the Advanced and Proximity Readers. They are perfect for installations that include a population of 125 KHz proximity cards, and some users with 13.56 MHz contactless smart cards.

1.2.4. Network Readers

TS Network Reader models are available in configurations with Ethernet. These forward-looking models support Power over Ethernet (PoE) for buildings wired for IP connectivity. Reader configurations and firmware can be updated over the Ethernet connection, providing a unique capability to adapt to future requirements.

1.2.5. Keypad Readers

All of the uTrust TS Reader models are available with an integrated keypad that can be used as a second authentication factor, or as an alternative credential. These robust, weather-sealed models have durable keys for long life and reliable operation.

1.2.6. Physical Options

uTrust TS Readers can be ordered either in a narrow mullion model, or as a wall mount for use with standard boxes. The keypad versions are the same size as the wall mount readers.

1.2.7. Custom Configurations

For installations with unique requirements, Hirsch can supply custom configurations of the uTrust TS Reader family. The interface colors and sounds can be customized and support is available for custom cryptographic keys, such as MIFARE Classic and DESFire. Minimum order quantities will apply and a professional services contract may be required. Contact your Hirsch sales or business development representative for more information.

1.3. uTrust TS Reader Features and Benefits

Feature	Benefit
Environmental Protection IP55 and IP65	Reliable in external environments
Tamper sensing in all models	Improved system integrity
Compatible with most proximity cards, including HID, Indala, and others	One reader can be used for most installations
Secure element with EAL 5+ certification	Configurations and cryptographic keys have the highest level of protection
Ethernet models support configuration and firmware updates over IP network	Future-proof your installation with readers that are upgradable to advanced features, like FICAM support
Ethernet models supporting Power over Ethernet (PoE) available	Can be used with modern building wiring using CAT5/CAT6 power

uTrust TS Reader Ordering Processes

- General

uTrust TS Readers are ordered using part numbers with the form $8xxxAByzzzz$. The type and basic configuration of the reader is specified by the xxx string as shown in the following table:

	RF	Mullion	Wall Mount	Keypad
Advanced	HF only	8000	8100	8200
Migration	HF/LF	8010	8110	8210
Prox	LF Only	8020	8120	8220
Networked	HF/LF	8030	8130	8230

The rear connector for Wiegand/RS-485 is specified with the *y*: P for pigtail, T for terminal. The last four characters, *ZZZZ*, specify the detailed configuration, both generally available configurations and user-specific custom configurations.

1.4. Specific Configurations

1.4.1. Advanced Readers

TS Advanced Readers have *8x00* part numbers. Available configurations are:

8000ABP0000	Mullion, Pigtail, Base configuration
8000APT0000	Mullion, Terminal, Base configuration
8100ABP0000	Wall Mount, Pigtail, Base configuration
8100ABT0000	Wall Mount, Terminal, Base configuration
8200ABT0000	Keypad, Terminal, Base configuration

1.4.2. Proximity Readers

TS Proximity Readers have *8x20* part numbers. Available configurations are:

8020ABP0000	Mullion, Pigtail, Base configuration
8020APT0000	Mullion, Terminal, Base configuration
8120ABP0000	Wall Mount, Pigtail, Base configuration
8120ABT0000	Wall Mount, Terminal, Base configuration
8220ABT0000	Keypad, Terminal, Base configuration

1.4.3. Migration Readers

TS Migration Readers have *8x70* part numbers. Available configurations are:

8010ABP0000	Mullion, Pigtail, Base configuration
8010APT0000	Mullion, Terminal, Base configuration
8110ABP0000	Wall Mount, Pigtail, Base configuration
8110ABT0000	Wall Mount, Terminal, Base configuration
8210ABT0000	Keypad, Terminal, Base configuration

1.4.4. Network Readers

TS Network Readers have **8x30** part numbers. Available configurations are:

8030ABP0000	Mullion, Pigtail, Base configuration
8030APT0000	Mullion, Terminal, Base configuration
8130ABP0000	Wall Mount, Pigtail, Base configuration
8130ABT0000	Wall Mount, Terminal, Base configuration
8230ABT0000	Keypad, Terminal, Base configuration

1.4.5. Keypad Readers

TS Keypad Readers have **82x0** part numbers. Available configurations are:

8200APT0000	Advanced
8220ABT0000	Proximity
8210ABT0000	Migration
8230ABT0000	Network

1.5. Detail Configurations

Part Numbers	Detail Number	Description
8020 8120	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity only reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK
8220	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity-only reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK • Keypad output 4-bit

8000 8100	0000	<ul style="list-style-type: none"> • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 32 bit CSN – PIV-I 32 bit CSN • Secure credential support: <ul style="list-style-type: none"> – Hirsch uTrust TS Card
8200	0000	<ul style="list-style-type: none"> • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID • Keypad output 4-bit • Secure credential support: <ul style="list-style-type: none"> – Hirsch uTrust TS Card
8010 8110 8030 8130	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID • Secure credential support: <ul style="list-style-type: none"> – Hirsch uTrust TS Card
8210 8230	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 32 bit CSN – PIV-I 32 bit CSN • Secure credential support: <ul style="list-style-type: none"> – Hirsch uTrust TS Card

		Keypad output 4-bit
8002 8102	0000	<ul style="list-style-type: none"> • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID • Secure credential support: • Hirsch uTrust TS Card
8202	0000	<ul style="list-style-type: none"> • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID • Keypad output 4-bit • Secure credential support: • Hirsch uTrust TS Card
8012 8112 8032 8132	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID • Secure credential support: • Hirsch uTrust TS Card
8212 8232	0000	<ul style="list-style-type: none"> • Red LED when ready • Beep and flash green on successful card read • Proximity reads: <ul style="list-style-type: none"> – CASI ASK – INDALA PSK – HID FSK • HF CSN reads: <ul style="list-style-type: none"> – MIFARE Classic 32 bit – MIFARE DESFire 56 bit – iClass 64 bit – PIV 75 bit FASC-N – PIV-I 128 bit GUID

		<ul style="list-style-type: none">• Secure credential support:<ul style="list-style-type: none">– Hirsch uTrust TS Card• Keypad output 4-bit
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1.6. Custom Configurations

Installations that have unique requirements can specify and order custom configurations. Hirsch's uTrust TS Reader architecture supports a wide range of capabilities for reader behavior, appearance, and secure keys. Please contact your Hirsch sales representative for more details on the process.

1.6.1. Existing Custom Configurations

For existing custom configurations, simply place your order using the four character detail configuration number you have received from your Hirsch sales contact or from the end-customer. Hirsch tracks both the end-customer and dealers who are authorized to order that configuration. If you are a dealer who has not previously ordered this custom configuration, you must get written authorization from the end-customer.

1.6.2. New Custom Configurations

For new custom configurations, terms and conditions will depend on the specifics of the configuration. Please contact your Hirsch sales team for assistance.

Installation and User Manual

Installation and user manuals for all Hirsch uTrust TS Readers can be downloaded from <https://www.hirschsecure.com/>. These manuals contain detailed installation instructions, and include mounting templates.

Compliance and Export Regulations

Hirsch uTrust TS Readers are potentially subject to a number of conditions that may lead to issues with compliance and export. Readers are available with different countries of origin. All uTrust TS Readers contain secure elements, cryptographic keys, and other security features. Please contact your Hirsch sales team for more information about your specific requirements.

Exhibit A: Supported Proximity Card Formats

The following table lists formats supported in standard configurations of Hirsch uTrust TS Readers. The readers can support additional formats. Please contact your Hirsch sales team for questions about specific requirements.

Hirsch Format	Description
40C	CASI
37F	HID Type
37E	HID Type - H10304
37D	HID Type - H10302
37C	S10701
37B	A901058A
37A	A10202
36S	S10601
36J	N901157A Napco
36I	I10601 - Identocard 36
36D	HID Type - S12906
36C	C10202
36B	C15001
35G	H10331
35D	HID Type - 51880 (Corp 1000)
34E	HID Type - N10002
34D	HID Type - H10306

33D	HID Type - D10202
32D	HID Type - H103130 (A10202)
26ID	Indala26 - 40134
26D	HID Type - H10301
26AD	AWID26