InfraRack

Intelligent Rack with Access Control & Total Monitoring

AUSTIN HUGHES ®

InfraRack $\mathbb{S}7$ Standalone Series

PROXIMITY
SMARTCARD

MiFARE
SMARTCARD

To satisfy high level data center requirements, Austin Hughes have launched an intelligent rack integrated with alloy swing handles & control panel with 2.8" touchscreen.

InfraRack $\mathbb{S}7$ series provides the most innovative but affordable solution to the rack essentials in the 21st century data centers.

Dual Security : SmartCard + NumPad

Via NumPad & SmartCard, the InfraRack S7 allows two-factor authentication to verify user ID.
It ensures dual security for the rack access control.

Temp. + Humid. Sensor, Light Bar & PDU Integration

Control panel can provide local display & monitoring for integrated InfraPower W3 intelligent PDUs, Temp.+Humid sensors & LED light bar.

Rugged & Aesthetic Swing Handle

Alloy S-700 handle is rigid & durable for maintaining reliable physical security.
Swing locking / unlocking mechanism suits most rack user practice.
An aesthetically enhanced smart locking handle is ideal for your smart data center environment.

LED for Clear Lock Status Indication

LED color modes on the smartcard handle indicate the lock status clearly. Blue & green LED indicate the locked status of Proximity & MiFARE handle respectively. An authorized unlock is signaled by a silver white flashing LED. Unauthorized rack access will result in a red flashing LED following with an audible alarm.
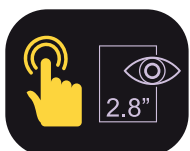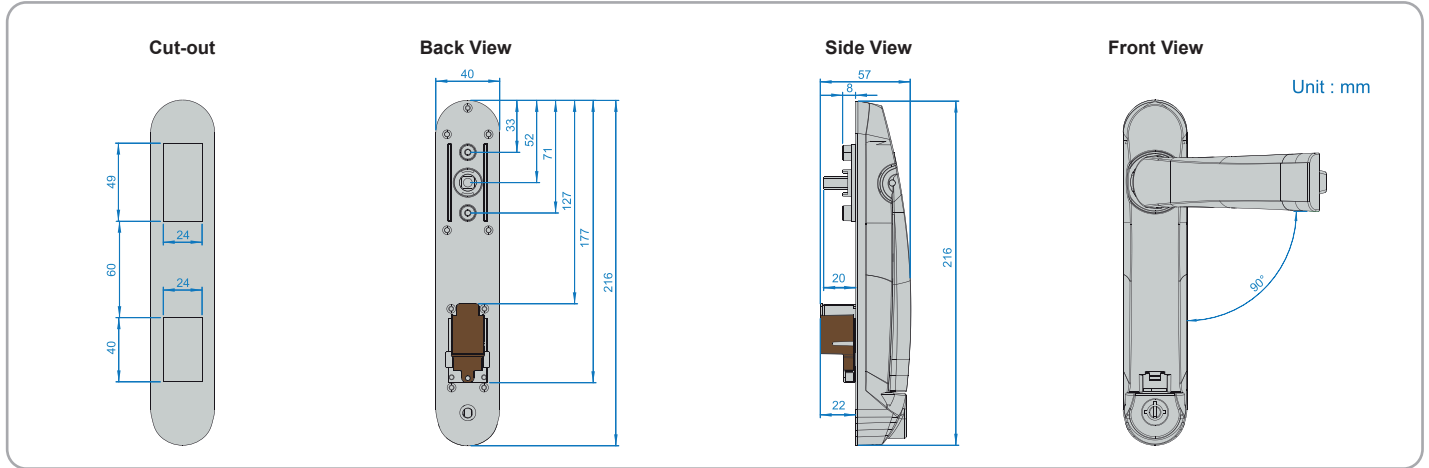
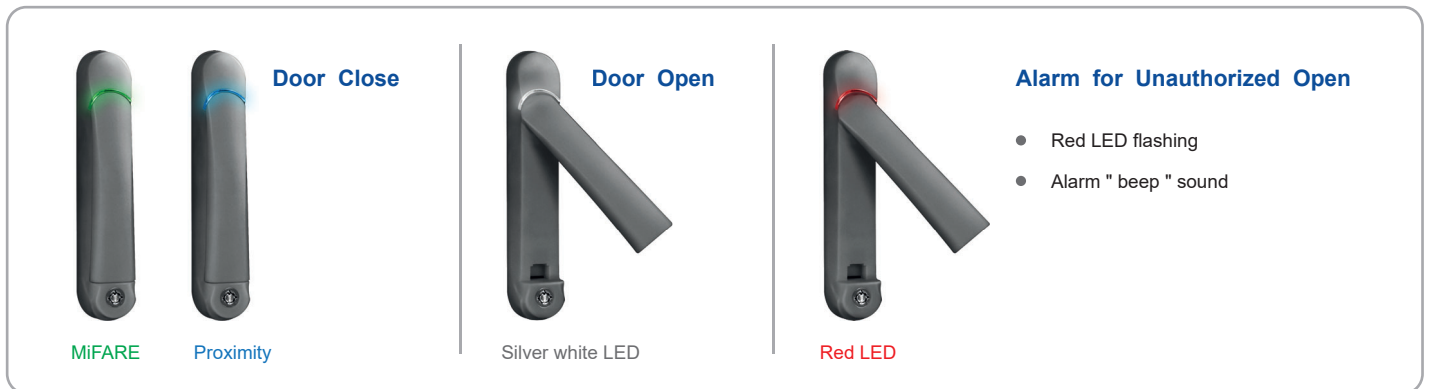### Sophisticated Control Panel w/ Touchscreen

All InfraRack S7 packages are supplied with a control panel that includes a 2.8" touchscreen with NumPad function. Built-in SmartCard sensor is compatible to MiFARE or Proximity SmartCard. By connecting to InfraPower W3 version intelligent PDU with temp+humid sensors, the controller can also provide local monitoring on Amp and Temp. + Humid.
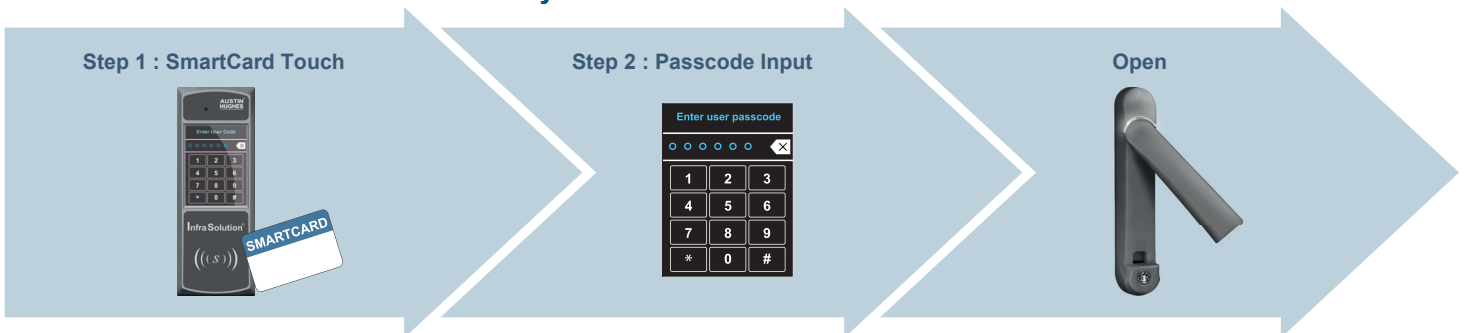
Alloy Swing Handle - Stylish Mechanical Design

Patented and Worldwide
Patents Pending

Cut-out	Back View	Side View	Front View

Unit : mm

Handle LED

Door Close

Door Open

Alarm for Unauthorized Open

- Red LED flashing
- Alarm " beep " sound

MiFARE   Proximity

Silver white LED

Red LED

Two-factor Authentication - Dual Security

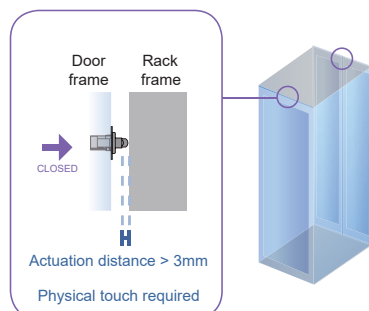| Step 1 : SmartCard Touch	Step 2 : Passcode Input	Open

SMARTCARD

Enter user passcode

Mechanical Door Sensor, pair

DOOR CLOSE

- Close door
- Sensor button is pressed on
- **DOOR CLOSE SIGNAL** sends out

Door frame | Rack frame

CLOSED

Actuation distance > 3mm

Physical touch required

DOOR OPEN

- Open door
- Sensor button is released
- **DOOR OPEN SIGNAL** sends out

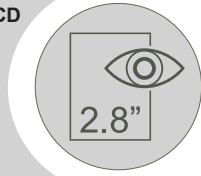Door frame | Rack frame

OPENED

Button released
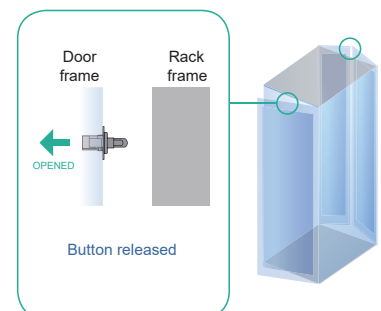
Control Panel

Touchscreen color LCD
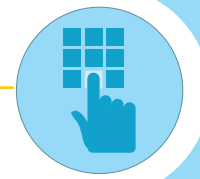- Resistive touch
- Sophisticated & stylish
- Ease of use

Display & Monitoring via 2.8" LCD
- Rack information
- Door status
- Alarm notification
- Temp. / Humid. figures
- PDU Amp. figures

NumPad
- Passcode assignment
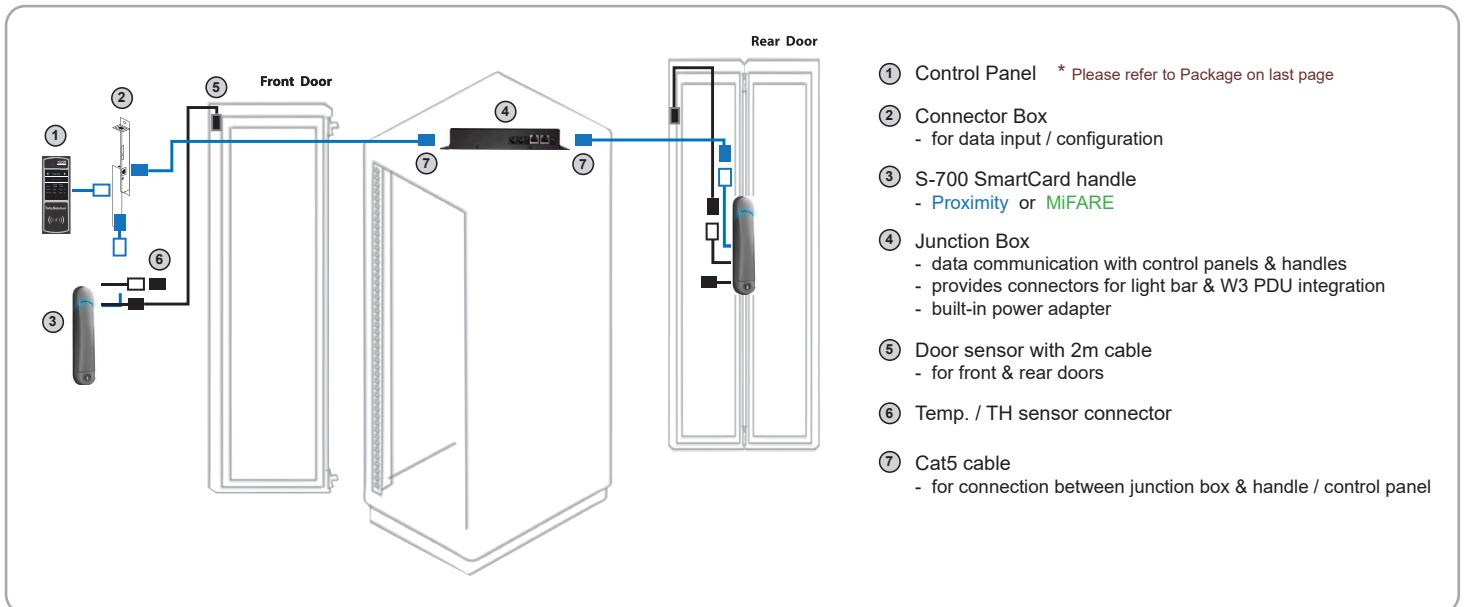- Passcode authentication
- Add / delete user card

SmartCard sensor
- Proximity 26-bit
- MiFARE 26-bit :
  - Classic
  - DESFire EV1 / EV2
  - Plus S / Plus X
  - Plus EV1

Installation Diagram

① Control Panel * Please refer to Package on last page

② Connector Box
- for data input / configuration

③ S-700 SmartCard handle
- Proximity or MiFARE

④ Junction Box
- data communication with control panels & handles
- provides connectors for light bar & W3 PDU integration
- built-in power adapter

⑤ Door sensor with 2m cable
- for front & rear doors

⑥ Temp. / TH sensor connector

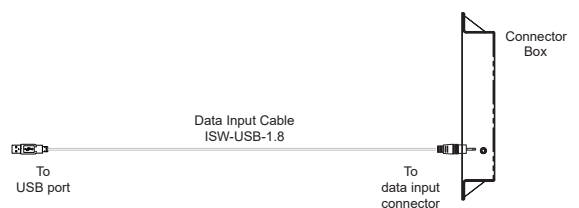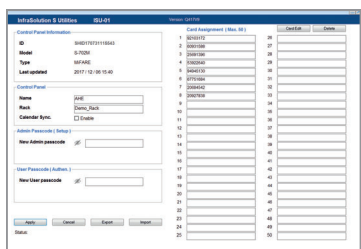⑦ Cat5 cable
- for connection between junction box & handle / control panel

Software

Via the **Free** utilities (ISU-01), client can change the admin./ user passcodes and assign the smartcards. Max. 50 user card authentication per control panel can be managed. The setup is easy via optional data input cable (ISW-USB-1.8).

SR Key Highlights

- Front 2.8" control panel for passcode & **MiFare** or **Proximity** smartcard access
- Front perforated door w/ alloy swing motor handle
- Rear perforated middle split door w/ alloy swing motor handle
- Heavy duty server rack
- 600 & 800 wide models meet up-to-date requirements of global data center
- Split side panel w/ lock & latch, pair
- Fully vented top cover w/ cable access channel
- Framework allows multi-dimensional cable pathways and numerous efficient cabling options
- Well-engineered to accommodate tool-less mounting PDU x 4
- Easy to deploy and adaptable to Aisle containment to achieve efficient airflow management
- Quick release mechanism design for doors and split side panels
- Tool-less adjustment for front and rear 19" rails
- Heavy duty castor & adjustable feet, set of 4
- Dynamic earthing kit
- M6 screw fixing, pack of 50

MiFARE SMARTCARD

PROXIMITY SMARTCARD

RoHS · REACH

600W	Package No.	Width		Depth				Height			
				Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
42U	**Infra-S7-SR-6042**	600	24"	1072	42"	1000	39"	2035	80"	1867	74"
	Infra-S7-SR-6242	600	24"	1200	47"	1128	44"	2035	80"	1867	74"
45U	**Infra-S7-SR-6045**	600	24"	1072	42"	1000	39"	2168	85"	2000	79"
	Infra-S7-SR-6245	600	24"	1200	47"	1128	44"	2168	85"	2000	79"
47U	**Infra-S7-SR-6047**	600	24"	1072	42"	1000	39"	2257	89"	2089	82"
	Infra-S7-SR-6247	600	24"	1200	47"	1128	44"	2257	89"	2089	82"
52U	**Infra-S7-SR-6252**	600	24"	1200	47"	1128	44"	2480	98"	2312	91"

MiFARE SMARTCARD **MiFare** package - Add **M** on the model no., sample : Infra-S7-SR-6042**M**

PROXIMITY SMARTCARD **Proximity** package - Add **P** on the model no., sample : Infra-S7-SR-6042**P**

** Custom size on request

1500 kg   3300 lb

800W	Package No.	Width		Depth				Height			
				Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
42U	**Infra-S7-SR-8042**	800	31"	1072	42"	1000	39"	2035	80"	1867	74"
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** Custom size on request

1500 kg   3300 lb

SR 600W Heavy Duty Rack

Perforated Top

Standard Split

Quick access design for service from side panel

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

Gives 80% perforated area w/ smartcard handle

SR 800W Heavy Duty Rack

Perforated Top

Standard Split

Quick access design for service from side panel

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

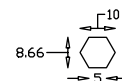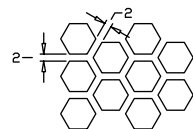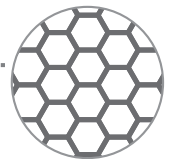Perforated w/ smartcard handle

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Standard Color

- Black (RAL 9005)
- White (RAL 9016)

** Custom color on request

Fully Perforated Door

- Door ventilation up to 80% perforated area
- Stylish hexagon pattern

2

2

10

8.66

5

Unit : mm

NSR Key Highlights

- Front 2.8" control panel for passcode & **MiFare** or **Proximity** smartcard access
- Front perforated door w/ alloy swing motor handle
- Rear perforated middle split door w/ alloy swing motor handle
- Medium duty server rack
- 600 & 800 wide models meet up-to-date requirements of global data center
- Side panel w/ latch, pair
- Fully vented top cover w/ cable access channel
- Framework allows multi-dimensional cable pathways and numerous efficient cabling options
- Well-engineered to accommodate tool-less mounting PDU x 2
- Easy to deploy and adaptable to Aisle containment to achieve efficient airflow management
- Quick release mechanism design for doors and split side panels
- Tool-less adjustment for front and rear 19" rails
- Heavy duty castor & adjustable feet, set of 4
- Dynamic earthing kit
- M6 screw fixing, pack of 50

MiFARE SMARTCARD

PROXIMITY SMARTCARD

RoHS REACH

600W	Package No.	Width		Depth				Height			
				Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
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MiFARE SMARTCARD **MiFare** package - Add **M** on the model no., sample : Infra-X8-NSR-6042**M**

PROXIMITY SMARTCARD **Proximity** package - Add **P** on the model no., sample : Infra-X8-NSR-6042**P**

** Custom size on request

1000 kg 2200 lb

800W	Package No.	Width		Depth				Height			
				Overall (door to door)		Effective (frame to frame)		Overall (w/ casters)		Effective	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
42U	**Infra-S7-NSR-8042**	800	31"	1072	42"	1000	39"	2035	80"	1867	74"
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MiFARE SMARTCARD **MiFare** package - Add **M** on the model no., sample : Infra-X8-NSR-8042**M**

PROXIMITY SMARTCARD **Proximity** package - Add **P** on the model no., sample : Infra-X8-NSR-8042**P**

** Custom size on request

750 kg 1650 lb

NSR 600W Medium Duty Rack

Perforated Top

Standard Plain

Tool-less installation or removal when maximizing systems or equipment density

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

Gives 80% perforated area w/ smartcard handle

NSR 800W Medium Duty Rack

Perforated Top

Standard Plain

Tool-less installation or removal when maximizing systems or equipment density

Fully Perforated Middle Split

Space-saving design for narrow aisle w/ smartcard handle

Fully Perforated

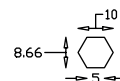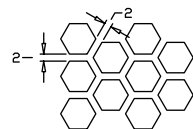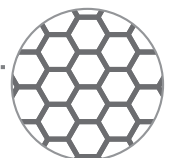Perforated w/ smartcard handle

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Standard Color

- Black (RAL 9005)
- White (RAL 9016)

** Custom color on request

Fully Perforated Door

- Door ventilation up to 80% perforated area
- Stylish hexagon pattern

2
2
10
8.66
5

Unit : mm

Package for Access Control

	Standard		Upgrade	
	Proximity	MiFARE	Proximity	MiFARE
① Handle, pair				
② SmartCard, 1pc				
③ Control panel	1	1	2	2
④ Connector box	1	1	2	2
⑤ Connector box to handle cable	1	1	2	2
⑥ Junction box	1	1	1	1
⑦ Mechanical door sensor, pair	1	1	1	1
⑧ Key	1	1	1	1

Optional Accessories
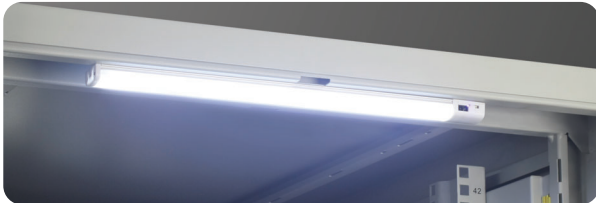
Temp. + Humid. Sensor
(IG-TH01)

Temp. Sensor
(IG-T01)

Low profile design w/ magnetic base

Each S-700 handle provides one connector for Temp. or Temp.+ Humid. sensor integration. Once connected, Control Panel LCD will show the Temp. / Humid. figures.

LED Light Bar (CLB-SD-IR-101)

Junction Box provides two connectors for LED light bar integration.
- Auto ON / OFF by door status change
- Low profile design w/ magnetic base

- **Data Input Cable, pc (ISW-USB-1.8)**

- **Proximity Smartcard, pack of 10 (ISC-P10)**

- **MiFARE Smartcard, pack of 10 (ISC-M10)**

- **Proximity Card Reader (ISC-PCR)**

- **MiFARE Card Reader (ISC-MCR)**

- **Individual Key Lock, set of 2 for front & rear door (ISK-C051)**

- **Unique Key Lock (ISK-UKL)**

Intelligent PDUs

- **W3 series Monitored**
  - **Switched**
  - **Monitored w/ Outlet Measurement**
  - **Switched w/ Outlet Measurement**

Junction Box provides two connectors for W3 Series PDU integration. Once connected, Control Panel LCD will show the PDU Amp figures.

* For models & configurations details, please contact us at inquiry@austin-hughes.com

As a leading global IT manufacturer, Austin Hughes provides TAA-compliant data center solutions, manufactures and assembles products in strategic TAA-certified locations.

Austin Hughes has an extensive distribution network, including the Americas, EMEA, APAC & ASEAN. Contact your nearest sales office for details of local representation.

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