

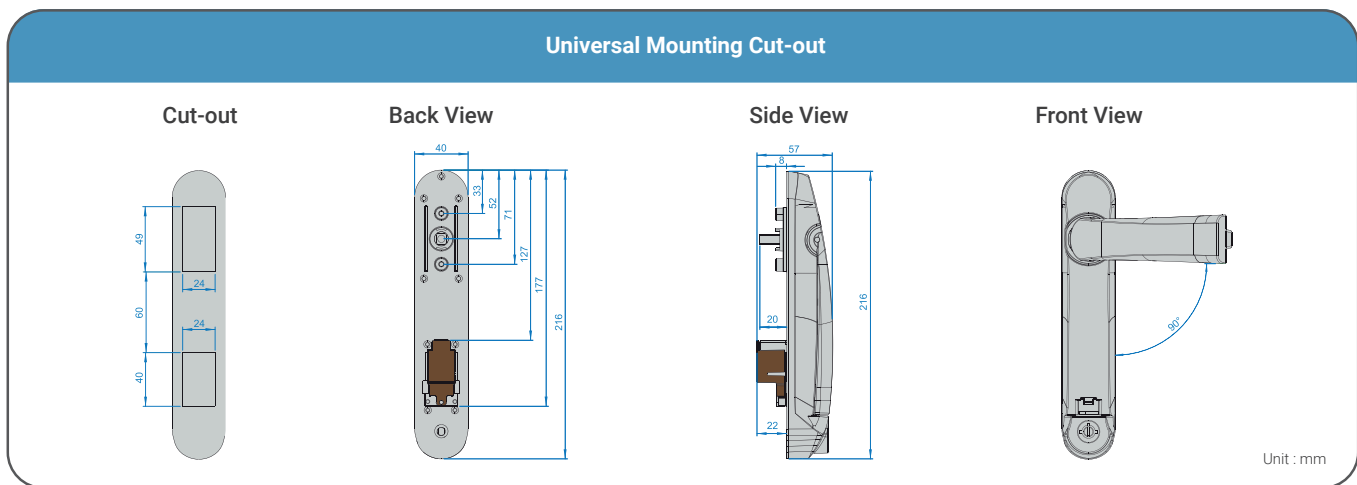


To satisfy high level data center security requirements, Austin Hughes has launched a standalone rack access solution with alloy swing handles & 2.8" touchscreen control panel. The InfraSolution S-700 series provides an innovative yet affordable solution for secure rack access in 21st century data centers.



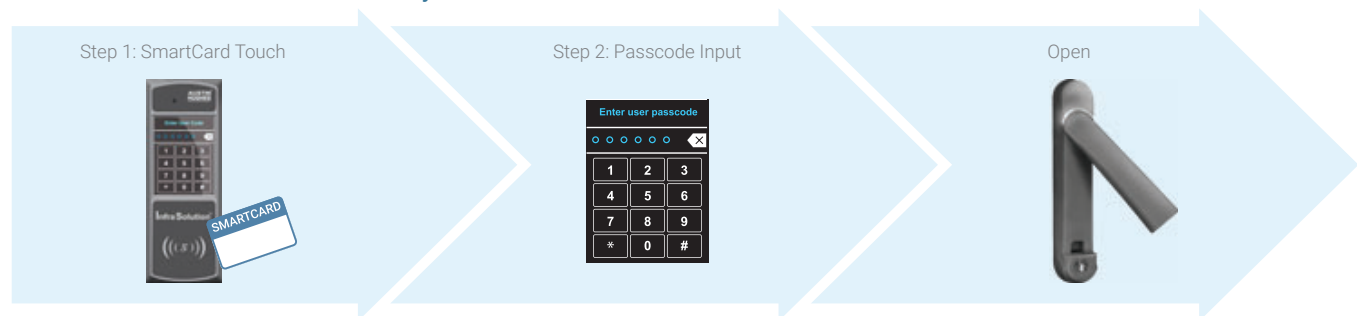
S-700P	Features	S-700M
	✓ Standalone, patented design	✓
	✓ Dual security: SmartCard + NumPad	✓
	✓ Rugged alloy swing handle	✓
	✓ Sophisticated control panel w/ touchscreen	✓
	✓ Proximity 26-bit SmartCard compatible	✗
	✗ MIFARE 26-bit SmartCard compatible	✓
	✓ Dual locking system (electronic and mechanical lock)	✓
	✓ Electronic lock released by SmartCard & NumPad	✓
	✓ Rack access status and alarm indication by LED	✓
	✓ Individually keyed lock options available	✓
	✓ Left side opening standard (optional right side open)	✓
		



Handle LED




Two-factor Authentication - Dual Security



Control Panel

Touchscreen Color LCD

- Resistive touch
- Sophisticated & stylish
- User friendly



NumPad

- Passcode assignment
- Passcode authentication
- Add / delete user cards

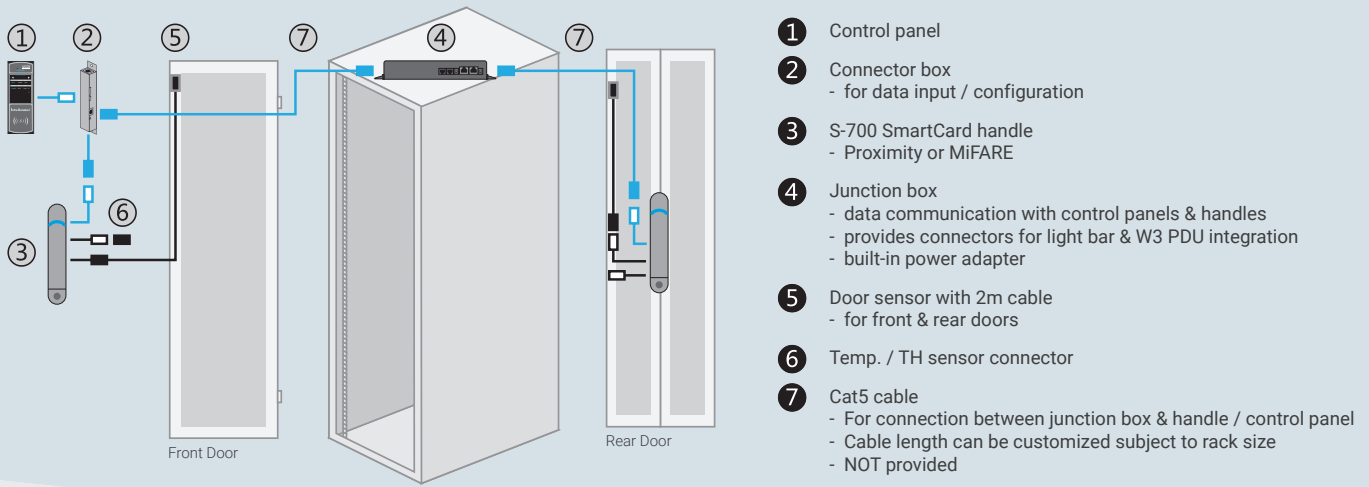
Display & Monitoring via 2.8" LCD

- Rack information
- Door status
- Alarm notifications
- Temp. / humid. values
- PDU Amp. values

SmartCard Sensor

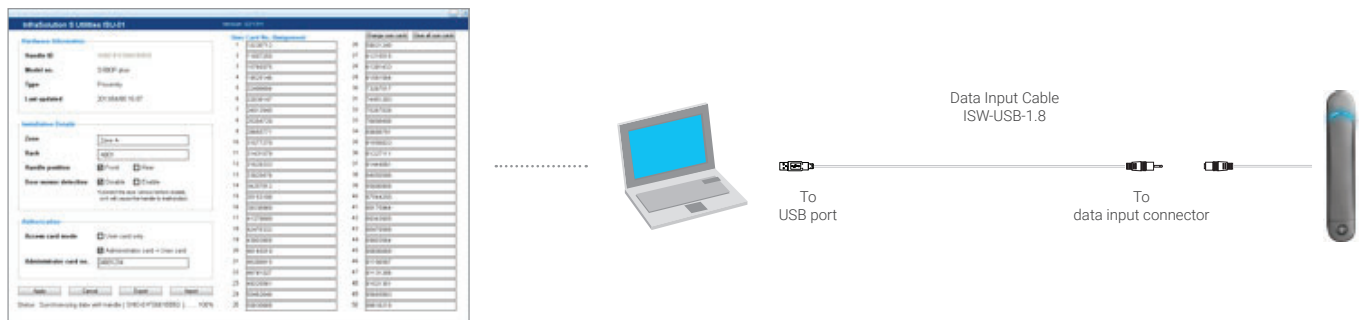
- Proximity 26-bit
- MiFARE 26-bit :
 - Classic
 - DESFire EV1 / EV2
 - Plus S / Plus X
 - Plus EV1

Installation Diagram



Software



Via the **Free** utility (ISU-01), administrators can change admin / user passcodes and assign smartcards. A maximum of 50 user card credentials can be managed per control panel. Setup is easy via the optional data input cable (ISW-USB-1.8).

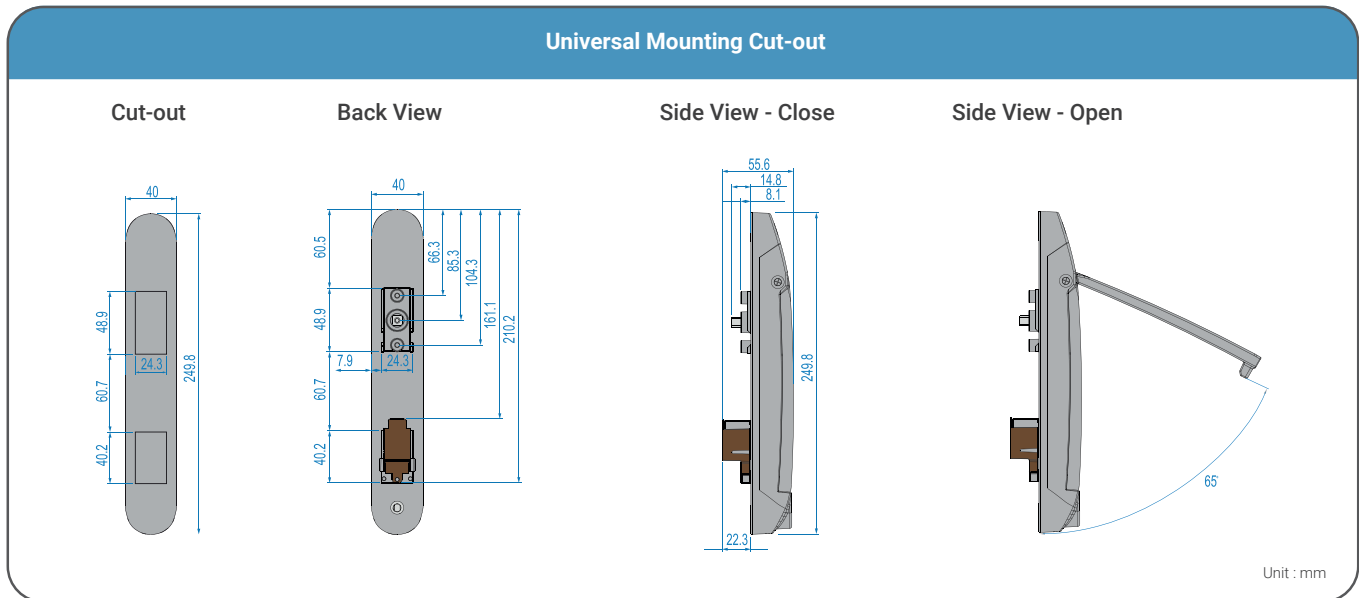


The patented S-800 SmartCard handle is designed for total rack access control and management.


For 100% accurate detection of exactly which door opened, InfraSolution S-800 is equipped with high quality, durable, precision door sensors for both doors.



S-800P	Features	S-800M
 <p>PROXIMITY SMARTCARD</p>	✓ Standalone, patented design	✓
	✓ Proximity 26-bit SmartCard compatible	✗
	✗ MiFARE 26-bit SmartCard compatible	✓
	✓ Dual locking system (electronic and mechanical lock)	✓
	✓ Electronic lock released by SmartCard	✓
	✓ Rack access status and alarm indication by LED	✓
	✓ Individually keyed lock options available	✓
	✓ Left side opening standard (optional right side open)	✓
		 <p>MiFARE SMARTCARD</p>




Handle LED




MiFARE Proximity

Door Closed



Silver white LED

Door Open



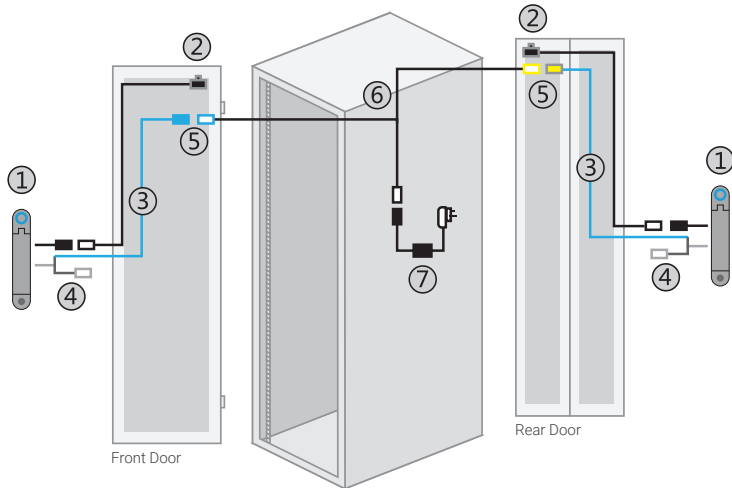
Red LED

Alarm for Unauthorized Open

- Red LED flashing
- Alarm "beep" sound

* Only available while handles equipped with door sensors

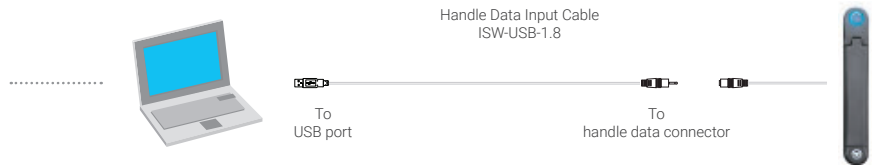
Installation Diagram



- ① S-800P Proximity or S-800M MiFARE smartcard handle : 2pcs for front & rear door, with cables to connect ②, ③, ④
- ② Optional door sensor with cable : 2pcs for front & rear door (6.5ft)
- ③ Power cable (door section) : 2pcs for front & rear door (6.5ft)
- ④ Data input connector (for handle activation / data input / configuration)
- ⑤ Joint connector of ③ & ⑥
- ⑥ Y-Power cable (rack section)
- ⑦ Universal Auto switching 2.5A power adapter & 6' power cord

Software

Via the **Free** utility (ISU-01), administrators can change admin / user passcodes and assign smartcards. A maximum of 50 user card credentials can be managed per control panel. Setup is easy via the optional data input cable (ISW-USB-1.8).



Door Sensor for S-700 & S-800

IR Door Sensor (Pair)
Part no. : S-DIR



- No custom cutting required on doors
- Light weight
- Magnetic base for easy setup
- Mini size (33 x 19 x 7 mm)
- Reflective label x 2 bundled
- With 2m cord

Inductive Door Sensor (Pair)
Part no. : S-DSI



- No custom cutting required on doors
- Light weight / adhesive
- Easy for existing rack retrofit
- Mounting bracket bundled
- Mini size (32.5 x 12.2 x 9.2 mm)
- With 2m cord

Mechanical Door Sensor (Pair)
Part no. : S-DSW





- Custom cutting required on doors
- Low cost / precise
- Cost efficient integration to new rack
- Size (52 x 22.5 x 30.75 mm)
- With 2m cord

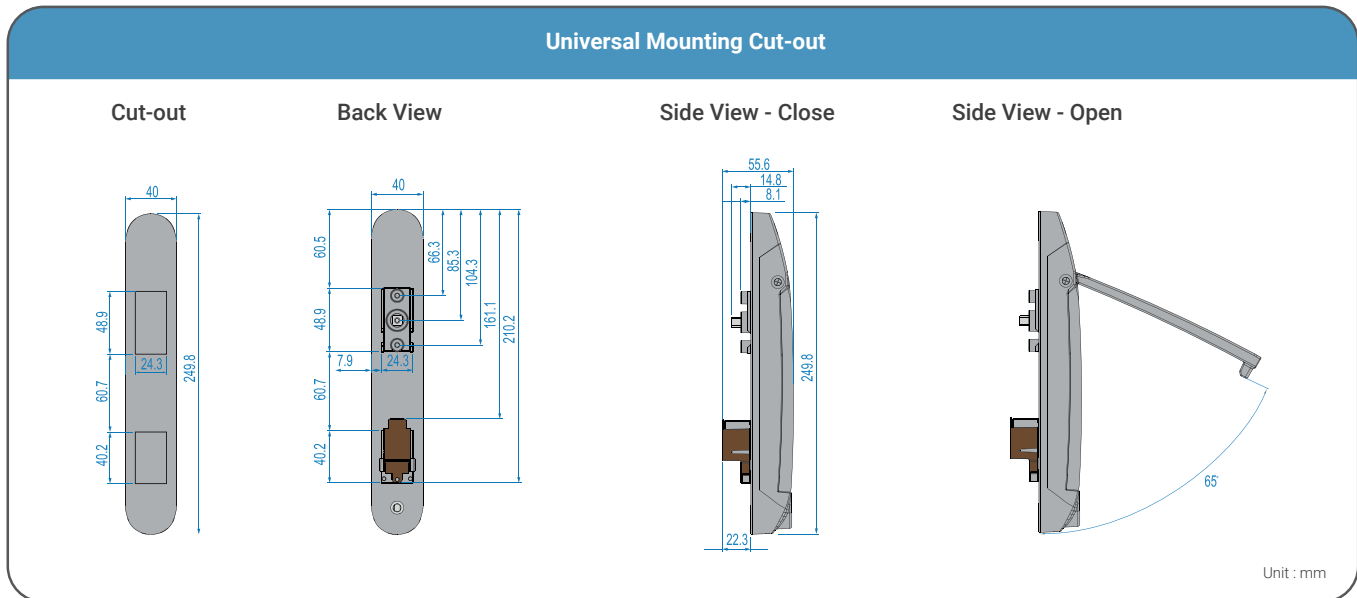
The patented X-800 SmartCard handle is designed for total rack access control and management.

The X-2000 control box, designed for rack SmartCard Access + PDU/Fan/Environmental Management, consolidates the smartcard access components and management of other integrated rack devices such as smart PDUs, cooling fans and environmental sensors in a single rack appliance. To facilitate centralized management, all control boxes can be connected via wired networks.

For 100% accurate detection of exactly which door opened, InfraSolution X-800 is equipped with high quality, durable, precision door sensors for both doors.



X-800P	Features	X-800M
 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 5px;"> PROXIMITY SMARTCARD </div>	✓ Networked, patented design	✓
	✓ Proximity 26-bit SmartCard compatible	✗
	✗ MiFARE 26-bit SmartCard compatible	✓
	✓ Dual locking system (electronic and mechanical lock)	✓
	✓ Electronic lock released by SmartCard	✓
	✓ Rack access status and alarm indication by LED	✓
	✓ Individually keyed lock options available	✓
	✓ Left side opening standard (optional right side open)	✓
		 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 5px;"> MiFARE SMARTCARD </div>



Handle Unlocking

The InfraSolution X-800 handle offers three ways to release the lock - Software Remote, SmartCard or Mechanical Key.

By Software Remotely



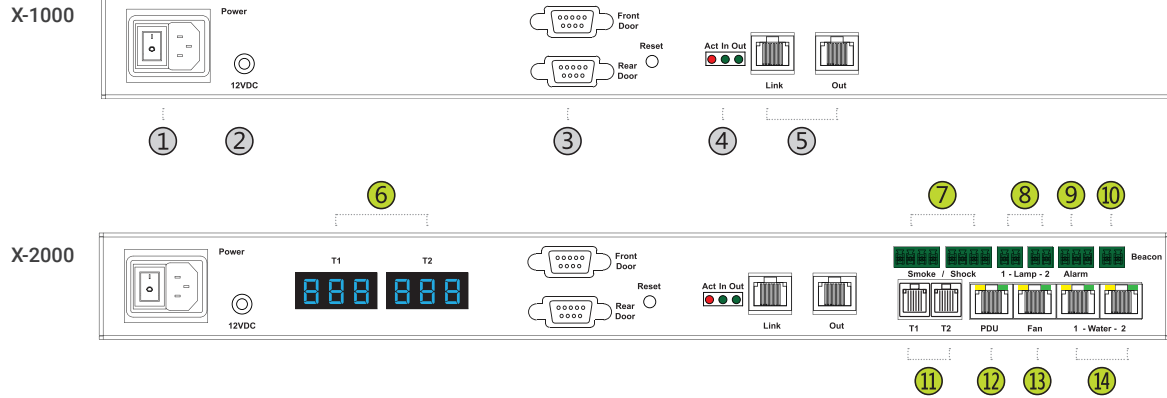
By SmartCard



By Mechanical Key

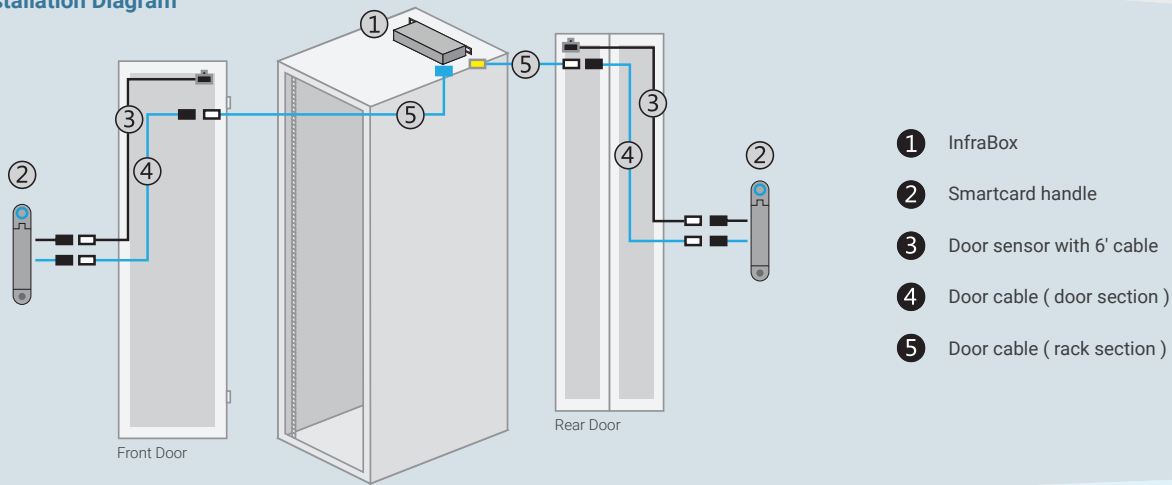


Control Box

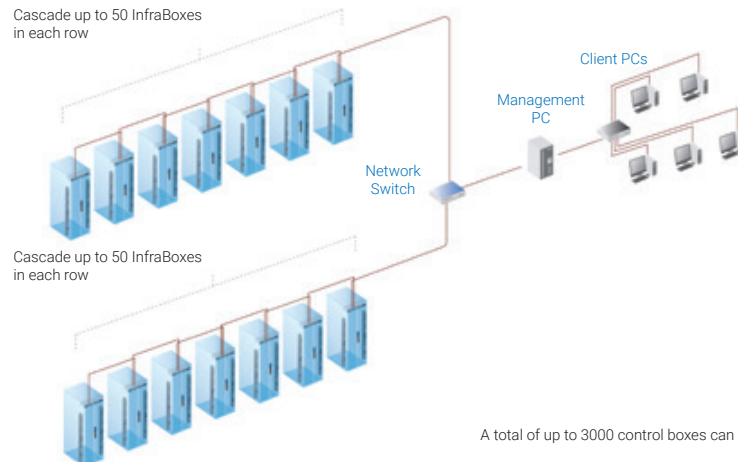


- ① Power input
- ② Dual power input (option)
- ③ Door cable DB-9 connector x 2
Connect to the front and rear handle
- ④ "Act in Out" LED
- ⑤ Daisy chain RJ45 port x 2 (Link & Out)
- ⑥ Temp. LED display x 2
- ⑦ Smoke / Shock sensor port x 2
- ⑧ LED Light Bar port x 2
- ⑨ Port for 3rd party alarm board x 1
- ⑩ LED beacon port x 1
- ⑪ Temp. & Humid. sensor port x 2
- ⑫ PDU port x 1 (RJ-45, Daisy Chain up to 4 PDUs)
- ⑬ Fan unit port x 1 (RJ-45, Daisy chain up to 2 fan units)
- ⑭ Water sensor port x 2

Installation Diagram

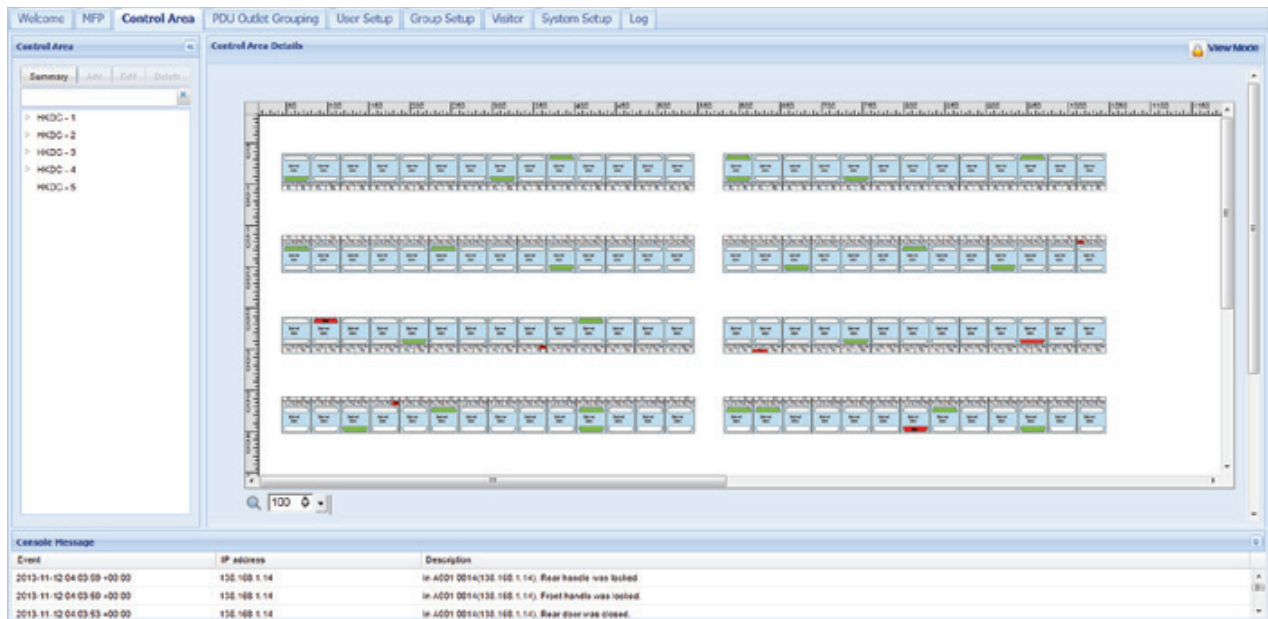


InfraBox Connection Diagram



A total of up to 3000 control boxes can be managed on the network

InfraSolution X Manager X-ISM is a LICENSED rack management software to monitor up to 3000 racks remotely. Each InfraBox connects a pair of Smartcard handles for secure rack access control and a variety of sensors to provide an integrated environmental monitoring solution. To enhance the functionality, up to 1920 PDUs and 960 Fan Units can be monitored through InfraSolution X Manager. To meet the requirements of today's multi-user, multi-tasking data center operations, up to 100 concurrent users can access the management software remotely.



Features		X-ISM
Capacity	InfraBox	3000
	Concurrent Users	100
System Setup	Backup/Restore Options	✓
	Time Rules	✓
	Alarm Mail Server Settings	✓
	Audio and Visual Alarm Output Setting	✓
Cabinet Overview Door	Door Status, PDUs, Sensor & Fan Units	✓
	Remotely Open Door	✓
	Last Door Open & Closed Record	✓
Sensor/Peripheral	Status Monitoring	✓
	Temp-Humid Alarm Threshold Settings	✓
PDU	Energy Consumption kWh/Amp Monitoring	✓
	Outlet Level Measurement	✓
	PDU Outlet Scheduling	✓
	Outlet ON/OFF Switching	✓
	Amp Alarm Threshold Settings	✓
	Amperage High/Low Alert Threshold Settings	✓
	Temp-Humid Monitoring	✓
Fan Unit	CFM & Temp. Monitoring	✓
	Unit CFM (Fan Speed) Settings	✓
	Auto CFM Control Settings	✓
	Individual Fan Kit ON/OFF	✓
	Fan Unit ON/OFF	✓
Chart/Event/Reporting	System & Device Event Reporting	✓
	Temp-Humid Historical Trending Charts	✓