AUSTIN® HUGHES

Design. Manufacturing. Global Services.

INTELLIGENT PDU

PATENTED OUTLETS

RACK CONSOLE DRAWER

4K
FHD
WU XGA
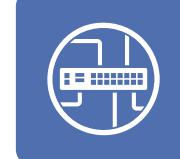
RACK KVM

HDMI
CAT6
DVI-D
VGA
VGA USB

1U RACK MOUNT FAN

33U DOOR MOUNT FAN

RAISED-FLOOR MOUNT FAN

CONTROL BOX - X3001

Contents

www.austin-hughes.com

![InfraPower® logo]

2000 Series PDU

3-Phase 400V / 208V
1-Phase 230V / 208V / 110V
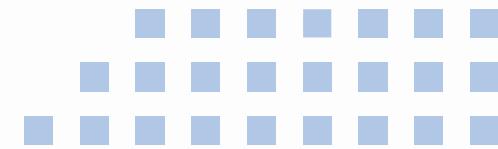
Slimmer. Smarter. Superior

Rack Power Management, like many areas of Information Technology Infrastructure has evolved in recent years and the options available today enable better usability, energy efficiency, and capacity planning.

Austin Hughes has developed the new InfraPower 2000 series cutting-edge rack power solutions for your IT environment, including a comprehensive range of single-phase to three-phase power distribution units with a new design intelligent meter and lockable / combo IEC outlets.

Scan here for more details

Benefits Highlight
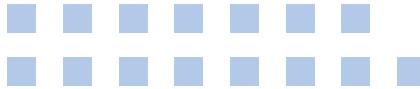
CONNECTION – Secure Auto Lock.

– Patented IEC outlets with slide lock mechanism design by Austin Hughes
– L13 Slide–lock C13 outlets
– L19 Slide–lock C19 outlets
– X19 Slide–lock combo C13 / C19 outlet
** ** L13 combo C13/C15 outlet & X19 combo C13/C15/C19/C21 outlet available upon request

IP ACCESS – High Availability.

– Z IP PDU model with embedded dual Gigabit ethernet LAN IP for redundant
  network access via IP
– Enterprise IP Authentication, LDAPv3 / LDAPS, Active Directory®, RADIUS, 802.1x

CONFIGURATION – Diversified & Customizable.

– 110V, 208V, 230V, 400V, 415V and more Volt inputs
– 1 Phase, 2 Phase & 3 Phase PDU
– 10A to 100A Amp inputs
– Wide range of PDU models, including Intelligent, Metered & Basic
– Up to 48 outlets for standard models; Custom outlet configurations available
– 0U, 1U & 2U form factor for standard models; Customized chassis size & color available
– C13, C19, US NEMA, UK, Schuko, French, Fused IEC and other outlet selections available
– Variety cordset & inlet available
– Top or Bottom Feed
– Flexible Mounting

METERING – Precise Intelligence.

- Z & M meters provide real-time local &
  remote power management
– Billing grade meter accuracy within +/– 0.5%

Protocol – Natively Compatible with DCIM

– SNMP V2 V3, Web GUI, Modbus/TCP, RestAPI, LUA

LINKING – Cost Saving Efficiency.

- Both Z & M iPDUs provide daisy chain functionality
- Via one single Z IP PDU / PDU dongle up to 32 iPDU levels
 can be accessed via single network IP
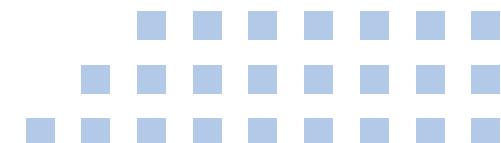
Intelligent Model Coverage

InfraPower 2000 Series Intelligent PDUs are available with a variety of models and functionality.

	IP PDU Series				Serial PDU Series			
	Z	Zi	ZS	ZSi	M	Mi	MS	MSi
Embedded Dual IP	●	●	●	●	✕	✕	✕	✕
Strip Power Monitoring	●	●	●	●	●	●	●	●
Circuit Power Monitoring	●	●	●	●	●	●	●	●
Circuit Breaker Monitoring	●	●	●	●	●	●	●	●
Outlet Level Monitoring		●		●		●		●
Outlet Level Switching			●	●			●	●

New Generation Meter

Z IP Meter

[5]

[3]
[2]
[1]
[4]
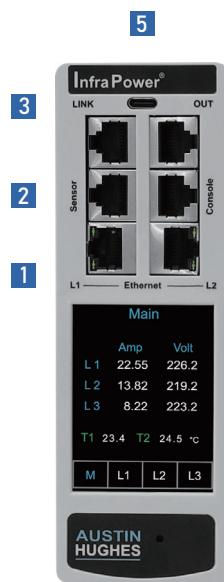
1 Embedded dual LAN IP

2 Sensor port x 1
– support single or daisy chain sensors (up to 4)

3 LINK & OUT cascading ports
– up to 32 levels of M / Z meter iPDU

4 Console port x 1
– PDU configuration

5 USB-C function port x 1
– WIFI
– firmware update
– backup power for meter against PDU power failure

✳ The latest Z PDU controller,
powered by ARM9 CPU (Microchip AT91SAM9G25)

M Serial Meter

[3]

[1]
[2]
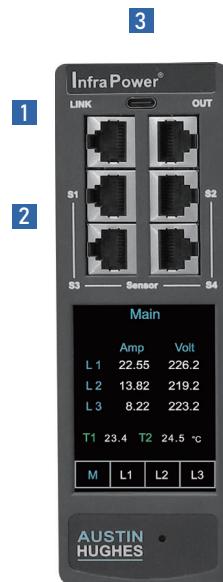
✳ IP connection via Z meter PDU or IP dongle

1 LINK & OUT cascading ports
– up to 32 levels of M / Z meter iPDU

2 Sensor port x 4
– support single or daisy chain sensors

3 USB-C function port x 1
– backup power for meter against PDU power failure

2.8" Touchscreen Color Display

The sharp & highly visible display of 2.8" touchscreen LCD provides local data of:

– Energy Consumption (kWh)   – Current (Amp)
– Power (KW)   – Voltage (V)
– Power Factor   – Temperature & Humidity

Billing Grade Meter Accuracy

The +/- 0.5% accuracy of the InfraPower PDU meter is vital for billing accuracy, energy efficiency, capacity planning and performance monitoring.

Hot-swappable Meter Design

Easily replace meter & power module without interrupting critical operations, ensuring maximum uptime and flexibility. Simplify maintenance and minimize downtime with this innovative and user-friendly solution.

Mechanical Design - Outlets.

In 2023, Austin Hughes takes great pride in announcing the obtainment of a patent for our outstandingly designed IEC outlets. This significant milestone encompasses the auto lock design of L13, L19 outlets, and combo X19 outlet. In addition to the patented innovative design, the materials and manufacturing of these new outlets strictly adhere to UL standards.

X19 Slide-lock Combo C13 / C19 Outlet   ** combo C13/C15/C19/C21 outlet available upon request

- Patented slide lock design by Austin Hughes
- Patented hybrid of IEC C13 & C19 outlet design by Austin Hughes
- X19 outlets provides the flexibility to connect C14 and C20 plugs in the same outlet
- Simplify PDU outlet configuration and provides flexibility to accommodate different
  power distribution requirements
- Secure C13-C14 and C19-C20 power cords and avoid accidental disconnection
- LED available for Switched PDUs to indicate outlet on / off status

L13 Slide-lock C13 Outlet   ** combo C13/C15 outlet available upon request

- Patented slide lock design by Austin Hughes
- Built-in slide locking lever automatically lock the C14 plug after insertion
- Secure C13-C14 power cords and avoid accidental disconnection
- LED available for Switched PDUs to indicate outlet on / off status

L19 Slide-lock C19 Outlet

- Patented slide lock design by Austin Hughes
- Built-in slide locking lever automatically lock the C20 plug after insertion
- Secure C19-C20 power cords and avoid accidental disconnection
- LED available for Switched PDUs to indicate outlet on / off status
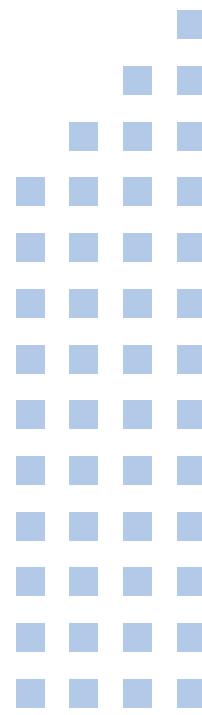
Color selection for slide lock outlet
Colored L13, L19 & X19 IEC outlets allow easy identification of rackmount equipment power paths, and facilitate power distribution management.

Black	Grey	White	Red	Blue	Green
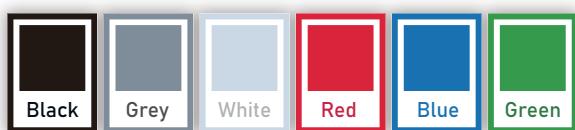
Mechanical Design - Chassis.

- Slim profile 0U chassis design with only 56mm in width and 55mm/68mm in depth

- Industrial grade chassis supports PDU operating temperature –5 to 60°C

- 8 colored chassis available for primary & redundant (A&B) power feed differentiation

| Black	White	Red	Blue	Green	Orange	Yellow	Purple
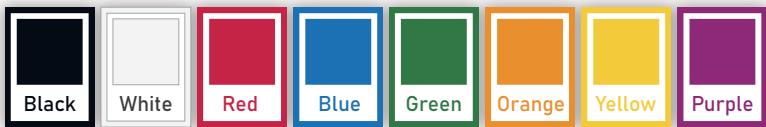
•
Standard

Alternative Outlet

US NEMA, UK BS1363, German Schuko, French, standard IEC C13 & C19 outlets are available.

For project based custom requirements, specific outlets (e.g., Fused IEC, Australian, South African or International) are also available.
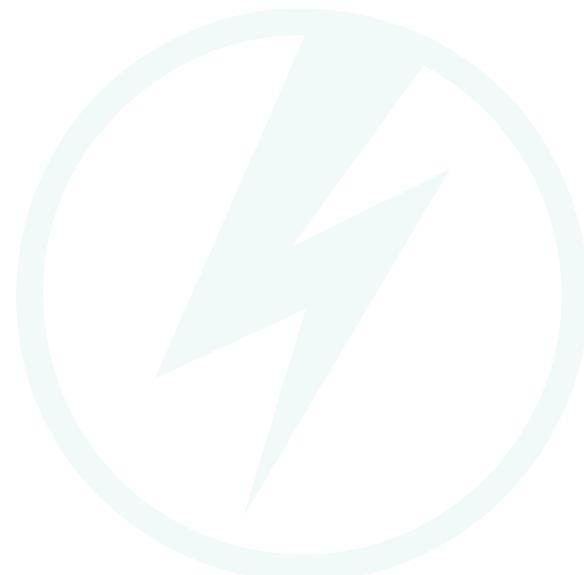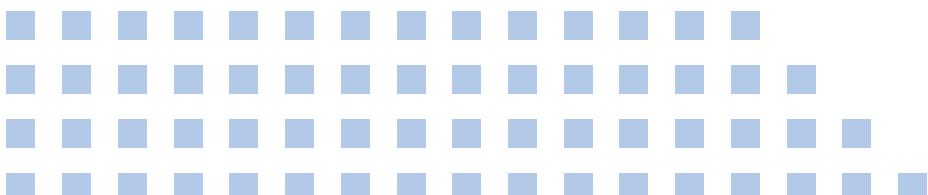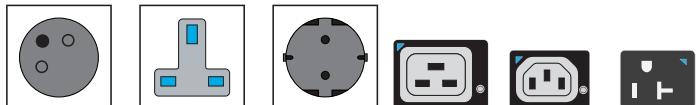
Safety & Quality Assurance

In the same year, Austin Hughes has proceeded the submission to UL . With a profound understanding of the significance of safety in PDUs, we firmly believe that both safety and quality are indispensable. The UL qualified further solidifies our commitment to delivering secure and reliable products.
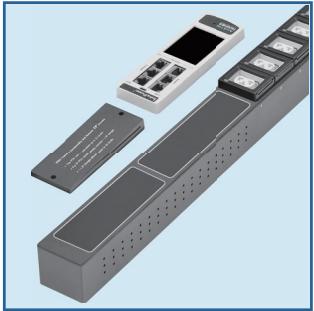
hot swappable
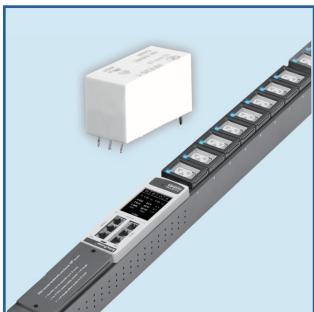
Latching relay
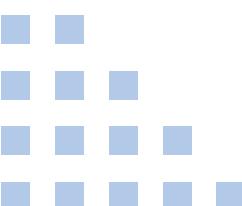
Daisy Chain PDU Connection.

InfraPower rack intelligent PDUs provide connection ports for PDU daisy chain. To daisy chain units, each PDU can simply be connected in series to the next by Cat5/6 cables. With the 1st level Z PDU with embedded IP, up to 32 daisy chain levels can be achieved. Z and M series 1-phase/ 3-phase PDUs can be inter-cascaded in a single daisy chain, up to 32 PDU levels.

Field Replaceable Design.

Meter

A field replaceable RMS meter with 2.8" color LCD display with touchscreen functionality. The hot swappable design helps eliminate maintenance downtime by simply replacing a possible defective meter without a service interruption.

DC Module

Given the mission critical nature of the environment the intelligent rack PDU is designed, built and manufactured to provide extremely high levels of resiliency. In addition to the hot swappable digital local touchscreen display, field replaceable DC power modules are used within the intelligent PDU models to avoid unnecessary downtime.

Latching Relay.

Outlet LEDs are built-in for switched PDU models with outlet switching functionality. Outlet switching is controlled via latching relays. Ensuring an 'always on' operational performance and outlet status returning to a pre-power outage after a planned or unplanned shutdown. Power consumption during normal or standard operation is low and therefore assists to reduce energy usage of the overall PDU.

Safety | Protection.

Downtime can be incredibly expensive in data centers and lead to data loss in mission-critical applications. InfraPower PDUs offer a range of safety devices that protect equipment from unexpected power quality issues, protect users from harm while working on the rack.

Selection for safety devices

Magnetic Circuit Breaker (MCB) / Earth-leakage Circuit Breaker / Resettable Fuse / Surge Protector / EMI Filter / Residual Current Monitor (RCM)

Software

PDU management software helps reducing manpower and hence improving uptime and productivity. It also benefits users with capacity planning and increasing the overall efficiency of the data center. InfraPower intelligent PDU offers 3 kinds of remote management solutions for users' selection.

1. ## Free Management Software IPM-04

    Free IPM-04 management software offers instantaneous visibility into crucial power quality, energy efficiency, and equipment health. By employing the most comprehensive and precise power management, you can effectively handle energy optimization, capacity planning, remote PDU control, environmental optimization, troubleshooting and maintenance with confidence.

    ### Capacity

    - 50 x iPDU Group Support (Just 1 IP for 32 iPDU level)
    - 1600 x iPDU Support
    - 5 x Concurrent User

    ### Power Outlet Control

    - Outlet Level Switching
    - Outlet Scheduling

    ### Environmental Monitoring

    - Temperature (°C / °F)
    - Humidity (%)
    - Smoke Detection
    - Door Open / Close Detection

    ### Power Quality Measurements

    - Inlet Power Monitoring
    - Branch Circuit Power Moitoring
    - Outlet Level Monitoring

    ### Alarming

    - Circuit Breaker (MCB) Monitoring
    - Rising Threshold & Alert
    - Overload Threhold & Alert

    ### Reporting

    - PDU log
    - Outlet log
    - Sensor log
    - Event log

2. ## Web Based GUI PPS-04-S

    A web-based GUI is integrated with Z IP PDU or external IP dongle (IPD-03-S). It is ideal for users who simply require the power monitoring and input switching under a single PDU daisy chain (up to 32 PDU levels).

3. ## DCIM

    Z series IP PDU & IP Dongle are natively compatible with DCIM or some other 3rd party management systems. Protocols include SNMP V2 V3, Web GUI, Modbus/TCP, RestAPI, etc.
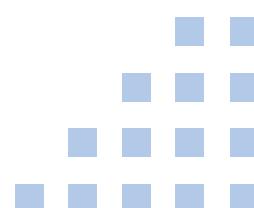
Accessories

A range of accessories and peripherals designed to enhance the functionality of intelligent PDUs.

IPD-03-S
(For Serial PDU)

Dual LAN PDU IP Dongle

- Dual LAN Network Failover
- Auto-negotiable 2 x Gigabit Ethernet standard
- Enterprise IP Authentication, LDAPv3 / LDAPS, Active Directory®, RADIUS, 802.1x
- Supports up to 32 daisy chained iPDUs
- Simultaneous multiple access via free management software IPM-04, web GUI & DCIM
- Protocol – SNMP V2 V3, Web GUI, Modbus/TCP, RestAPI, etc
- USB Wifi Port for connection to Wifi kit (IPD-WIFI) with standards 802.11 g/n/ac
- Detachable design

Z-TH01-2M / 4M

Temperature & Humidity Sensor

- Low profile design with magnetic base for easy affixing to the rack
- Plug & play
- 2M or 4M cord

Z-T01-2M / 4M

Temperature Sensor

- Low profile design with magnetic base for easy affixing to the rack
- Plug & play
- 2M or 4M cord

Z-S01-1M / 3M

Smoke Sensor

- Once smoke alarm triggered, red LED lights on with continuous beep sound
- 1M or 3M cord

Z-W01-3M

Water Sensor

- Fluid leakage detection
- 5M rope round the rack bottom to detect any fluid flowing to the rack area
- IP65 cable joint connectors provided
- 3M cord

Z-DSW

Mechanical Door Sensor (Pair)

- Low cost / precise
- Cost efficient integration to new rack
- Size (52 x 22.5 x 30.75 mm)
- 2M cord
- Connect directly to handles

Z-DIR

IR Door Sensor (Pair)

- Light weight with magnetic base
- No custom cutting required on doors
- Mini size (33 x 19 x 7 mm)
- 2M cord
- Connect directly to handles

IPD-WIFI

WIFI Kit

- WIFI kit with 1M cord
- 802.11 g/n/ac WiFi
- Low-profile design wireless athena
- Magnetic base design for tool-less affix

IP-ED-01

4.3" Door Mount Display Panel

- 1 smart display panel support 2 iPDUs
- Viewable while doors in closed position
- Resistive touchscreen
- Displays power, temp., humid., water leakage, smoke or door status
- Alarm & log

Safety Devices

Resettable Fuse (-F) : Overload protection for 1-Phase PDU.

Hydraulic MCB (-CR) : Overload protection for 1-Phase / 3-Phase PDU.

EMI Filter(-EMI) : Suppresses conducted interference on a signal/power line. Optional for 1-Phase / 3-Phase PDU.

Surge Protector (-SPT) : Grounds unwanted voltages above the safe threshold. Optional for 1-Phase / 3-Phase PDU.

Residual Current Monitor (-RCM) : Alerts users to current leaking from IT devices. Optional for 1-Phase / 3-Phase PDU.

Earth-leakage Circuit Breaker (-ELCB) : Alerts users to current leaking from IT devices. Optional for 1-Phase / 3-Phase PDU.
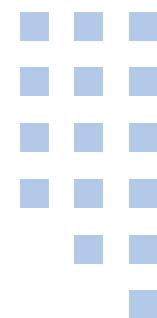
Automatic Transfer Switch

Most data centers provide power source redundancy in order to ensure critical devices have no power related downtime. For single-corded rackmount IT devices, the InfraPower ATS is a perfect fit to provide power failover. It includes dual power inlets for connection to both a primary power source and a redundant, secondary power source.

W series iATS
· 2.0" Touch color LCD Meter
· 1 x Embedded Gigabit LAN IP

B series iATS
· LED current Ammeter
· 1 x Embedded Gigabit LAN IP

Basic ATS
· LED current Ammeter

InfraPower Rack ATS Features	Intelligent W series			Intelligent B series			Basic
	WSi	WS	W	BSi	BS	B	
Input Source Switching Over IP	●	●	●	●	●	●	
Input Source Switching Locally	●	●	●	●	●	●	●
Outlet Switching Over IP	●	●		●	●		
Outlet Power Monitoring Over IP	●			●			
Strip / Circuit Power Monitoring Over IP	●	●	●	●	●	●	
2.0" Color Touchscreen LCD Meter	●	●	●				
3-digit RMS LED Current Meter				●	●	●	●
Billing Grade Meter Accuracy, ±0.5%	●	●	●	●	●	●	
Accuracy ± (3% of the reading + 5 last digits)							●
Embedded 100/1000 LAN IP	●	●	●	●	●	●	
Input Source Transfer Time	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ms	< 10 ~ 16 ms

Mini IP Solutions

Why Mini IP Solutions ?

Stylish Mini Size Chassis

Unlike a rack mount device which is installed in IT server rack, Austin Hughes Mini IP Solution (MiniBoot & Mini IP KVM) can be applied in various environment for diversified applications (e.g. SOHO, commercial office, kiosks, etc)

Save Manpower & Travel Costs

Via network IP, user can remotely monitor and control the computers or reboot the devices anytime and anywhere.

Benefits via MiniBoot

Remote Reboot to Recover Your Device

When a complete restart is required MiniBoot provides a simple and easy way to reboot a hardware device.

In addition, MiniBoot provides 3 kinds of auto outlet control :

- IP-Ping automatically detects a failed system for timely reboot
- Outlet on/off by sensor setting (temp., smoke & door sensor)
- Outlet on/off scheduling

Benefits via Mini IP KVM

Variety of Models

USB-C, HDMI, VGA or DVI-D video port selection ;

1-port, 2-port or 4-port IP KVM Gateway

User Friendly IP Remote Access

HTML-base & Java-free remote access over IP

Support BIOS access, no need to run OS on the connected PC(s)

Hot pluggable, no software or drivers required

Mac & Windows Compatible

Hardware Support : Mac / HP / IBM / Dell PC, Server and Blade Server

OS Support : Mac / Windows / Linux

CyberView™

**Rackmount KVM**

LCD Console Drawer

4K / FHD Display

Rack KVM & Screen

CyberView is a comprehensive range of rack mount LCD Console Drawers and KVM switches from Austin Hughes.

Used in Data centers, Control Rooms, Broadcasting, Remote Locations and OEM systems builds.

KVM Switch

HDMI KVM

- HDMI KVM with 8 ports in 1U
- KVM cables support DP, HDMI & DVI-D video input
- USB hub ports share peripheral devices among computers
- Local console & KVM ports support 4K, 2K and 1080p resolutions
- Port switching via front button & keyboard hotkeys
- Multi platform, hot pluggable, no software or drivers required

DVI-D KVM

- DVI-D KVM with 12 ports in 1U
- Port switching via front button & keyboard hotkeys
- Multi platform, hot pluggable, no software or drivers required

Matrix Cat6 KVM

- Cat6 KVM with 16 or 32 ports in 1U
- Simultaneous & independent access for up to 4 consoles
- Cat6 dongles available for USB-C, DP, HDMI, DVI-D or VGA video input
- IP 1080 / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- Cascade up to 8 KVM switches to control as many as 256 servers

Combo Cat6 KVM

- Cat6 KVM with 8, 16 or 32 ports in 1U
- Cat6 dongles available for USB-C, DP, HDMI, DVI-D or VGA video input
- IP 1080 / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- Cascade up to 8 KVM switches to control as many as 256 servers

USB Hub DB-15 KVM

- DB-15 KVM with 8 ports in 1U
- IP 1080 / Remote console options
- USB hub ports share peripheral devices among computers
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required

Combo DB-15 KVM

- DB-15 KVM with 8 or 16 ports in 1U
- IP 1080 / Remote console options
- Port switching via OSD, front button, keyboard hotkeys
- Multi lingual OSD menu
- Multi platform, hot pluggable, no software or drivers required
- Cascade up to 8 KVM switches to control as many as 128 servers

KVM Cable

HDMI KVM

CK-6P

4K HDMI – DP
KVM cable (6 ft)

CK-6H

4K HDMI – HDMI
KVM cable (6 ft)

CH-6D

2K HDMI – DVI-D
KVM cable (6 ft)

DVI-D KVM

CI – 6 / 15

DVI-D KVM cable
(6 / 15 ft)

DB-15 KVM

CB – 6 / 10 / 15

VGA KVM cable
(6 / 10 / 15 ft)

Cat6 KVM Dongle

DG-100C

USB-C dongle

DG-100P

DP-USB dongle

DG-100H

HDMI-USB dongle

DG-100SD

DVI-USB dongle

DG-100S

VGA-USB dongle

4 : 3 LCD Console Drawer

D117 / D119 — 1U Dual Slide 17" / 19" LED-backlit LCD Console Drawer

Benefits

- 1U 17" / 19" LED-backlit LCD console drawer
- Dual slide – LCD and keyboard slide independently
- 1280 x 1024 native resolution
- 16.7M colors
- 104-key USB keyboard with touchpad
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.4 + DVI-D + Audio + Speakers (AV4.4)
- HDMI 1.4 + Speakers (HDMI)
- S-Video + Composite + Speakers (BNC)
- 3G / HD / SD-SDI input + Speakers (SDI)
- DC power : 12V / 24V / 48V / 125V / 250V
- SUN Micro keyboard option

N117 / N119 — 1U 17" / 19" LED-backlit LCD Console Drawer

Benefits

- 1U 17" / 19" LED-backlit LCD console drawer
- 1280 x 1024 native resolution
- 16.7M colors
- 104-key USB keyboard with either touchpad or trackball
- Short depth design of 500mm
- One man installation design
- Modern, molded front handle with two point lock

Options

- HDMI 1.4 + DVI-D + Audio + Speakers (AV4.4)
- HDMI 1.4 + Speakers (HDMI)
- S-Video + Composite + Speakers (BNC)
- 3G / HD / SD-SDI input + Speakers (SDI)
- DC power : 12V / 24V / 48V / 125V / 250V
- SUN Micro keyboard option

RKP117 / 119   1U 17" / 19" LED-backlit LCD Console Drawer

Benefits

- ▶ 1U 17" / 19" LED-backlit LCD console drawer
- ▶ 1280 x 1024 native resolution
- ▶ 16.7M colors
- ▶ 104-key USB keyboard with either touchpad or trackball
- ▶ Short depth design of 460mm and 500mm respectively
- ▶ One man installation design
- ▶ New enhanced aesthetics with molded front handle

Options

- ● HDMI 1.4 + DVI-D + Audio + Speakers (AV4.4)
- ● HDMI 1.4 + Speakers (HDMI)
- ● S-Video + Composite + Speakers (BNC)
- ● 3G / HD / SD-SDI input + Speakers (SDI)
- ● Front USB hub port for device access (USB)
- ● 2-post rack mounting brackets (ORB-2.1)
- ● DC power : 12V / 24V / 48V / 125V / 250V
- ● SUN Micro keyboard option
- ● 17" Touchscreen :
  Projected Capacitive 10-pt / Resistive 1-pt
- ● 19" Touchscreen : Resistive 1-pt

KVM Kit Options

- **HDMI KVM**
  8 ports
  (Resolution related to LCD specification)

- **DVI-D KVM**
  12 ports

- ▪ **Combo Cat6 KVM**
  8 / 16 / 32 ports
  IP & Remote options

- ▪ **Matrix Cat6 KVM**
  16 / 32 ports
  IP & Remote options

- ▪ **Combo DB-15 KVM**
  8 / 16 ports
  IP & Remote options

- ▪ **USB-Hub DB-15 KVM**
  8 ports
  IP & Remote options

Scan here for more models

4 : 3 Rack Display Panel / Drawer

RP-717 / 819 — 7U / 8U Display Panel

Benefits

▶ 7U 17" / 8U 19" LED-backlit LCD display panel
▶ 1280 x 1024 native resolution / 16.7M colors
▶ HDMI 1.4 + VGA video input (speakers excluded)
▶ 2-year standard warranty (upgradable up to 5 years)

Options

● Dual stereo speakers for HDMI (HS4.4)
● DVI-D + Audio + Speakers (DV4.4)
● Composite + Audio IN + Speakers (BNC)
● 3G / HD / SD-SDI input + Speakers (SDI)
● Multi display OSD controller (MCS)
● MIL-type or lockable connector
● DC power : 12V / 24V / 48V / 125V / 250V
● IP65 front protection (IP65)
● Touchscreen : Projected Capacitive 10-pt* / Capacitive 1-pt* / Resistive 1-pt

 * Extra 1U chassis height will be increased after integration.

RP-117 / 119 — 1U Display Drawer

Benefits

▶ 1U 17" / 19" LED-backlit LCD display drawer
▶ 1280 x 1024 native resolution
▶ 16.7M colors
▶ HDMI 1.4 + VGA video input (speakers excluded)
▶ Short depth design of 500mm
▶ One man installation design
▶ Modern, molded front handle with two point lock

Options

● Dual stereo speakers for HDMI (HS4.4)
● DVI-D + Audio + Speakers (DV4.4)
● S-Video + Composite + Speakers (BNC)
● 3G / HD / SD-SDI input + Speakers (SDI)
● DC power : 12V / 24V / 48V / 125V / 250V
● 17" Touchscreen : Projected Capacitive 10-pt / Resistive 1-pt
● 19" Touchscreen : Resistive 1-pt

RP120 — 1U 17" / 19" LED-backlit LCD Console Drawer

Benefits

- ▶ 1U 20" LCD display drawer
- ▶ 1600 x 1200 native resolution
- ▶ 16.7M colors
- ▶ HDMI 1.4 + VGA video input (speakers excluded)
- ▶ One man installation design
- ▶ Modern, molded front handle with two point lock

Options

- ● Dual stereo speakers for HDMI (HS4.4)
- ● DVI-D + Audio + Speakers (AV3.0)
- ● S-Video + Composite + Speakers (BNC)
- ● 3G / HD / SD-SDI input + Speakers (SDI)
- ● DC power : 12V / 24V / 48V / 125V / 250V
- ● Touchscreen : Resistive 1-pt
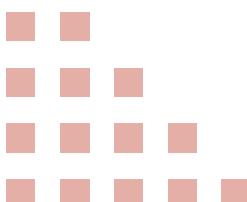
Scan here for more models

FHD LCD Console Drawer

F117 / F119 — 1U 17" / 19" FHD LED-backlit LCD Console Drawer

Benefits

▶ 1U 17" / 19" LED-backlit LCD console drawer
▶ 1920 x 1080 native resolution / 16.7M colors
▶ HDMI + VGA video input (speakers excluded)
▶ 104-key USB keyboard with either touchpad or trackball
▶ Short depth design of 460mm
▶ One Man installation design
▶ New enhanced aesthetics with molded front handle

   * 2-point lock available for F119 front handle

Options

● Dual stereo speakers for HDMI (HS4.4)
● DP 1.0 + Speakers (DP)
● DVI-D + Audio + Speakers (DV4.4)
● Composite + Audio IN + Speakers (BNC)
● 3G / HD / SD-SDI input + Speakers (SDI)
● Front USB hub port for device access (USB)
● 2-post rack mounting brackets (ORB-2.1)

   * Bracket option available for F117

● DC power : 12V / 24V / 48V / 125V / 250V
● SUN Micro keyboard option
● 17" Touchscreen :
   Projected Capacitive 10-pt / Resistive 1-pt

DF117 — 1U Dual Slide 17" FHD LED-backlit LCD Console Drawer

Benefits

▶ 1U 17" LED-backlit LCD console drawer
▶ Dual slide – LCD and keyboard slide independently
▶ 1920 x 1080 native resolution
▶ 16.7M colors (8-bit)
▶ HDMI 1.4 + VGA video input (speakers excluded)
▶ 104-key USB keyboard with touchpad
▶ One man installation design
▶ Modern, molded front handle with two point lock

Options

● Dual stereo speakers for HDMI (HS4.4)
● DP 1.0 + Speakers (DP)
● DVI-D + Audio + Speakers (DV4.4)
● Composite + Audio IN + Speakers (BNC)
● 3G / HD / SD-SDI input + Speakers (SDI)
● DC power : 12V / 24V / 48V / 125V / 250V
● SUN Micro keyboard option

F121 — 1U 21" FHD Large LED-backlit LCD Console Drawer

Benefits

- 1U 21" LED-backlit LCD console drawer
- 1920 x 1080 native resolution
- 16.7M colors
- HDMI 1.4 + VGA video input (speakers excluded)
- 104-key USB keyboard with either touchpad or trackball
- One man installation design
- Modern, molded front handle with two point lock

Model (left side open)	Model (right side open)
F121	F121R

Options

- Dual stereo speakers for HDMI (HS4.4)
- DP 1.0 + Speakers (DP)
- DVI-D (DVI)
- Composite + Audio IN + Speakers (BNC)
- 3G / HD / SD-SDI input + Speakers (SDI)
- Front USB hub port for device access (USB)
- DC power : 12V / 24V / 48V / 125V / 250V
- SUN Micro keyboard option

* No HDMI after integration of DP, DVI, BNC or SDI option

KVM Kit Options

- **HDMI KVM**
  8 ports
  (Resolution related to LCD specification)

- **DVI-D KVM**
  12 ports

- **Combo Cat6 KVM**
  8 / 16 / 32 ports
  IP & Remote options

- **Matrix Cat6 KVM**
  16 / 32 ports
  IP & Remote options

- **Combo DB-15 KVM**
  8 / 16 ports
  IP & Remote options

- **USB-Hub DB-15 KVM**
  8 ports
  IP & Remote options

Scan here for more models

FHD Rack Display Panel / Drawer

RP-F617 / RP-F719   6U 17" / 7U 19" FHD Display Panel

Benefits

- 6U 17" / 7U 19" LED-backlit LCD display panel
- 1920 x 1080 native resolution
- 16.7M colors
- HDMI 1.4 + VGA video input (speakers excluded)

Options

- Dual stereo speakers for HDMI (HS4.4)
- DVI-D + Audio + Speakers (DV4.4)
- DP 1.0 + HDMI + Audio + Speakers (DP)
- Composite + Audio IN + Speakers (BNC)
- 3G / HD / SD-SDI input + Speakers (SDI)
- Multi display OSD controller (MCS)
- MIL-type or lockable connector
- DC power : 12V / 24V / 48V / 125V / 250V
- IP65 front protection (IP65)
- Touchscreen :
  17" Projected Capacitive 10-pt / Resistive 1-pt
  19" Resistive 1-pt
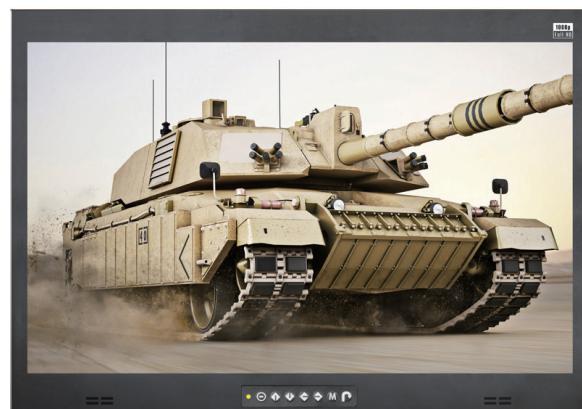
RP-F821   8U 21" FHD Display Panel

Benefits

- 8U 21" LED-backlit LCD display panel
- 1920 x 1080 native resolution
- 16.7M colors
- HDMI 1.4 + VGA video input (speakers excluded)

Options

- Dual stereo speakers for HDMI （HS4.4）
- DVI-D + Audio + Speakers （DV4.4）
- DP 1.0 + HDMI-2.0 + Audio + Speakers （DP）
- Composite + Audio IN + Speakers （BNC）
- 3G / HD / SD-SDI input + Speakers （SDI）
- Multi display OSD controller （MCS）
- MIL-type or lockable connector
- DC power : 12V / 24V / 48V / 125V / 250V
- IP65 front protection （IP65）
- Touchscreen : Resistive 1-pt

RP-F117   1U 17" FHD Display Drawer

Benefits

- ▶ 1U 17" LED-backlit LCD display drawer
- ▶ 1920 x 1080 native resolution
- ▶ 16.7M colors (8-bit)
- ▶ HDMI 1.4 + VGA video input (speakers excluded)
- ▶ Short depth design of 480mm
- ▶ One man installation design
- ▶ Modern, molded front handle with two point lock

Options

- ● Dual stereo speakers for HDMI (HS4.4)
- ● DVI-D + Audio + Speakers (DV4.4)
- ● DP 1.0 + Speakers (DP)
- ● Composite + Audio IN + Speakers (BNC)
- ● 3G / HD / SD-SDI input + Speakers (SDI)
- ● DC power : 12V / 24V / 48V / 125V / 250V
- ● Touchscreen :
  Projected Capacitive 10-pt / Resistive 1-pt
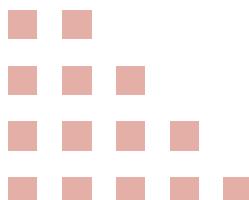
Scan here for more models

4K LCD Console Drawer

K117 — 1U 17" 4K LED-backlit LCD Console Drawer

Benefits

- 1U 17" 4K LED-backlit LCD console drawer
- 3840 x 2160@60Hz native resolution
- 2560 x 1440@60Hz QHD resolution support
- 1920 x 1080 & 1920 x 1200 resolutions support
- 16.7M colors (8-bit)
- Display port 1.2 video input / USB KB / MS
- 104-key USB keyboard with either touchpad or trackball
- Built-in dual stereo speakers
- Short depth design of 460mm
- One man installation design
- New enhanced aesthetics with molded front handle

Options

- HDMI 2.0 video input (HDMI)
- 3G / HD / SD-SDI Broadcast-grade input (SDI)
- Front USB hub port for device access (USB)
- 2-post rack mounting brackets (ORB-2.1)
- DC power : 12V / 24V / 48V / 125V / 250V
- SUN Micro keyboard option
- Touchscreen :
  Projected Capacitive 10-pt / Resistive 1-pt

DK117 — 1U Dual Slide 17" 4K LED-backlit LCD Console Drawer

Benefits

- 1U 17" 4K LED-backlit LCD console drawer
- Dual slide - LCD and keyboard slide independently
- 3840 x 2160@60Hz native resolution
- 2560 x 1440@60Hz QHD resolution support
- 1920 x 1080 & 1920 x 1200 resolutions support
- 104-key USB keyboard with touchpad
- 16.7M colors (8-bit)
- Display port 1.2 video input / USB KB / MS
- Built-in dual stereo speakers
- One man installation design
- Modern, molded front handle with two point lock

Options

- Dual stereo speakers for HDMI (HS4.4)
- DVI-D + Audio + Speakers (DV4.4)
- DP 1.0 + HDMI-2.0 + Audio + Speakers (DP)
- Composite + Audio IN + Speakers (BNC)
- 3G / HD / SD-SDI input + Speakers (SDI)
- Multi display OSD controller (MCS)
- MIL-type or lockable connector
- DC power : 12V / 24V / 48V / 125V / 250V
- IP65 front protection (IP65)
- Touchscreen : Resistive 1-pt

K123 1U 23" 4K Large LED-backlit LCD Console Drawer

Benefits

- ▶ 1U 23" 4K LED-backlit LCD console drawer
- ▶ 3840 x 2160@60Hz native resolution
- ▶ 2560 x 1440@60Hz QHD resolution support
- ▶ 1920 x 1080 & 1920 x 1200 resolutions support
- ▶ 1.07B colors (10-bit)
- ▶ Display port 1.2 video input / USB KB / MS
- ▶ 104-key USB keyboard with either touchpad or trackball
- ▶ Built-in dual stereo speakers
- ▶ One man installation design
- ▶ Modern, molded front handle with two point lock

Options

- ● HDMI 2.0 video input (HDMI)
- ● 3G / HD / SD-SDI Broadcast-grade input (SDI)
- ● Front USB hub port for device access (USB)
- ● DC power : 12V / 24V / 48V / 125V / 250V
- ● SUN Micro keyboard option

Model (left side open)	Model (right side open)
K123	K123R
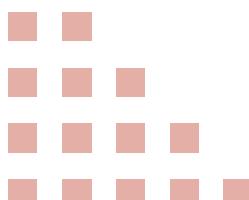
KVM Kit Options

- • **HDMI KVM**
 **8 ports**

4K Rack Display Panel / Drawer

RP-K617   6U 17" 4K Display Panel

Benefits

- 6U 17" 4K LED-backlit LCD display panel
- 3840 x 2160@60Hz native resolution
- 2560 x 1440@60Hz QHD resolution support
- 1920 x 1080 & 1920 x 1200 resolution support
- 16.7M colors (8-bit)
- Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- PIP Sub-screen & PBP Dual-screen viewing efficiency
- Built-in dual stereo speakers

Options

- 112G / 4K60 / SD-SDI input（12G-SDI）
  * No HDMI 2.0 after integration of 12G-SDI
- 3G / HD / SD-SDI Broadcast-grade input (SDI)
- Multi display OSD controller (MCS)
- MIL-type or lockable connector
- DC power : 12V / 24V / 48V / 125V / 250V
- IP65 front protection (IP65)
- Touchscreen :
  Projected Capacitive 10-pt / Resistive 1-pt

RP-K923   9U 23" 4K Display Panel

Benefits

- 9U 23" 4K LED-backlit LCD display panel
- 3840 x 2160@60Hz native resolution
- 2560 x 1440@60Hz QHD resolution support
- 1920 x 1080 & 1920 x 1200 resolution support
- 1.07B colors (10-bit)
- Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
- PIP Sub-screen & PBP Dual-screen viewing efficiency
- Built-in dual stereo speakers

Options

- 12G / 4K60 / SD-SDI input（12G-SDI）
  * No HDMI 2.0 after integration of 12G-SDI
- 3G / HD / SD-SDI Broadcast-grade input (SDI)
- Multi display OSD controller (MCS)
- MIL-type or lockable connector
- DC power : 12V / 24V / 48V / 125V / 250V
- IP65 front protection (IP65)
- Touchscreen :
  Projected Capacitive 10-pt / Resistive 1-pt

RP-K117   1U 17" 4K Display Drawer

Benefits

▶ 1U 17" 4K LED-backlit LCD display drawer

▶ 3840 x 2160@60Hz native resolution

▶ 2560 x 1440@60Hz QHD resolution support

▶ 1920 x 1080 & 1920 x 1200 resolution support

▶ 16.7M colors (8-bit)

▶ Display port 1.2 video input

▶ Built-in dual stereo speakers

▶ Short depth design of 480mm

▶ One man installation design

▶ Modern, molded front handle with two point lock

Options

● HDMI 2.0 video input (HDMI)

● 3G / HD / SD-SDI Broadcast-grade input (SDI)

● DC power : 12V / 24V / 48V / 125V / 250V

● Touchscreen :
   Projected Capacitive 10-pt / Resistive 1-pt
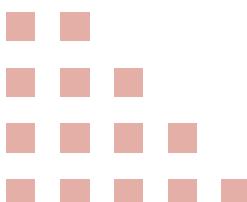
Scan here for more models

Multi-Display Console Drawer

MRK 2U Multi-display Console Drawer

Benefits

▶ 2U 22" short depth design
▶ Light weight
▶ Rugged construction for mobility & durability
▶ Built-in solid bearing slide rails
▶ Built-in dual stereo speaker (per display)
▶ Four LED backlit display selections (4K, WUXGA, FHD, 4:3)
▶ DVI-D + VGA video input for FHD, WUXGA & 4:3 (per display)
▶ Display port 1.2 video input for 4K (per display)
▶ 104-key keyboard with either touchpad or trackball (PS2 / USB)
▶ Fits 24" ~ 36" rack via adjustable mounting brackets

Options

● DC power: 12V / 24V / 48V / 125V / 250V
● 3G / HD / SD-SDI Broadcast-grade input
● Sunlight readable LCD for 17" FHD & 19" 4:3
● Touchscreen
● SUN Micro keyboard options available
● Front USB hub port for device access
● HDMI video input
● USB keyboard & mouse selector

Models

		LH mounted		RH mounted
17"	4K UHD	MRK-K17-2L	MRK-K17-3	MRK-K17-2R
17"	1080p	MRK-F17-2L	MRK-F17-3	MRK-F17-2R
16.2"	1920 1200	MRK-X17-2L	MRK-X17-3	MRK-X17-2R
19"	1280 1024	MRK-19-2L	MRK-19-3	MRK-19-2R

Rear View

MRK-K17

Standard : DP
Option : DP + HDMI

Attached 6 ft DP cable for each DP port
Attached 6 ft HDMI cable for each HDMI port

MRK-F17 / MRK-X17 / MRK-19

Standard : VGA + DVI-D
Option 1 : VGA + HDMI
Option 2 : VGA + DP (MRK-F17 only)
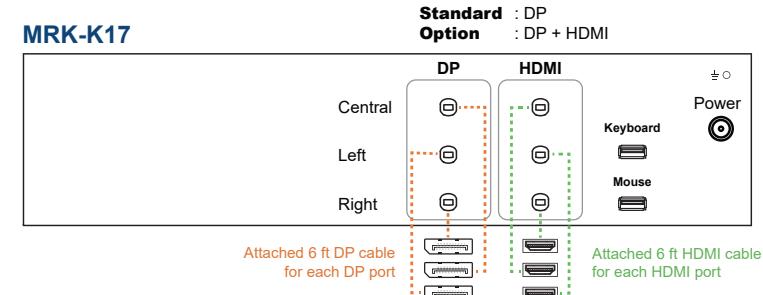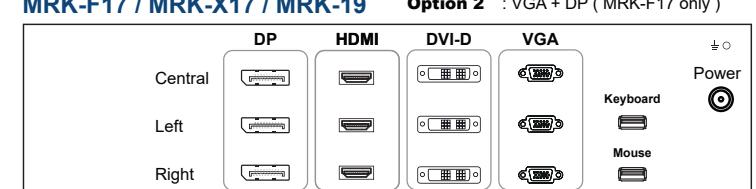
Multi-Display Drawer

MRP | **2U Multi-display Drawer**

Benefits

- ▶ 2U 22" short depth design
- ▶ Light weight
- ▶ Rugged construction for mobility & durability
- ▶ Built-in solid bearing slide rails
- ▶ Built-in dual stereo speaker (per display)
- ▶ Four LED backlit display selections (4K, WUXGA, FHD, 4:3)
- ▶ DVI-D + VGA video input for FHD, WUXGA & 4:3 (per display)
- ▶ Display port 1.2 video input for 4K (per display)
- ▶ Fits 24" ~ 36" rack via adjustable mounting brackets

Options

- ● DC power: 12V / 24V / 48V / 125V / 250V
- ● 3G / HD / SD-SDI Broadcast-grade input
- ● Sunlight readable LCD for 17" FHD & 19" 4:3
- ● Touchscreen
- ● HDMI video input

Models

		LH mounted		RH mounted
17"	4K UHD	MRP-K17-2L	MRP-K17-3	MRP-K17-2R
17"	1080p	MRP-F17-2L	MRP-F17-3	MRP-F17-2R
16.2"	1920 1200	MRP-X17-2L	MRP-X17-3	MRP-X17-2R
19"	1280 1024	MRP-19-2L	MRP-19-3	MRP-19-2R

Rear View

MRP-K17

Standard : DP
Option : DP + HDMI

	DP	HDMI	
Central	⊡	⊡	Power
Left	⊡	⊡	
Right	⊡	⊡	

Attached 6 ft DP cable for each DP port

Attached 6 ft HDMI cable for each HDMI port

MRP-F17 / MRP-X17 / MRP-19

Standard : VGA + DVI-D
Option 1 : VGA + HDMI
Option 2 : VGA + DP (MRP-F17 only)

	DP	HDMI	DVI-D	VGA	
Central	⊡	⊡	⊡	⊡	Power
Left	⊡	⊡	⊡	⊡	
Right	⊡	⊡	⊡	⊡	

![InfraCool logo]

Infra **Cool**®

FC CE RoHS REACH

Door Mount
Fan Panel

Raised Floor Mount Fan

Rackmount Fan Tray

Rack Fan

Thermal management presents big challenges for today's data centers, chief among which is cooling equipment in enclosed racks. **I**nfra **Cool**® intelligent cooling solutions provide appropriate airflow, while helping minimize operational costs associated with data center energy consumption. Make InfraCool an integral part of your rack cooling strategy today.

Benefits Highlight

Fan Series	Door Mount Fan Panel	Rackmount Fan Tray			Raised Floor Mount Fan
Intelligent Master	MRF-33.9	✗	MRF-1.6	MRF-1.9	WF-66.4
Intelligent Expansion	RF-33.9	✗	RF-1.6	RF-1.9	
Basic	F-33.9	F-1.3	F-1.6	F-1.9	F-66.4
Fan Number	9	3	6	9	4 (EC Fan)
Total CFM	972	324	648	972	2172
Airflow	Front Door — Cool Air In / Rear Door — Hot Air Out	Top Exhaust hot air out / Equipment Cooling / Bottom Cool air in			Front Door — Cool Air In
Temp. Port	1	1			2
Temp. Sensor	1	1			2
Intelligent Model Features:					
16 Daisy Chain Levels	✔	✔			✗
Auto Fan Speed Control	✔	✔			✔
Control Panel	✔	✔			✔
Individual Fan On/Off via software	✔	✔			✔
Alarm Temp. Setting	✔	✔			✔
Unit CFM Setting	✔	✔			✔
Temperature Monitoring	✔	✔			✔
Fan Status Monitoring	✔	✔			✔
CFM Status Monitoring	✔	✔			✔
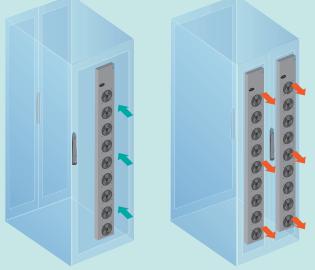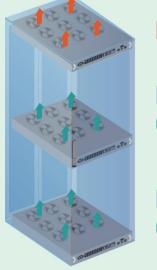
InfraSolution®

InfraSolution Z-3001

Rack Access Control

To satisfy high level data center security requirements, Austin Hughes has launched InfraSolution Z-3001 access control solution.

X-3001 supports POE to reduces the implementation time and expense of having electrical power cabling installed.

Handles

InfraSolution Z-3001 offers 2 smart access control package for customer selection.

Z-700 with swing handles
+ door sensors
+ control panel(s)

Z-800 with handles
+ door sensors

Scenario references

As a total IT rack solution, InfraSolution Z-3001 covers not only the rack access control features, but also the rack power, cooling and environmental management. User can implement the InfraSolution racks based on the installation environment and scenario. The following scenarios are two of the examples for your reference.

Scenario 1
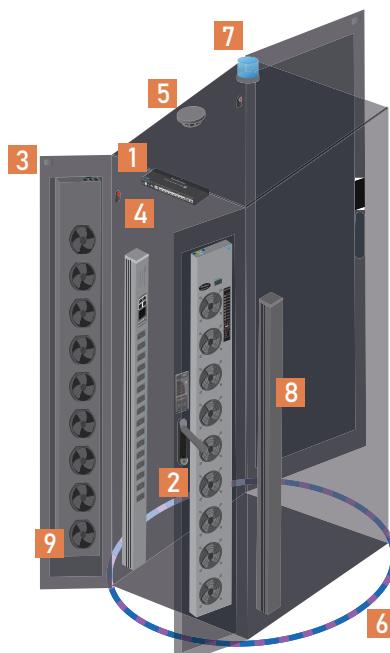
1. InfraBox Z-3001
2. Z-700 Smart Handle + Control Panel (pair)
3. IR Door Sensor (pair)
4. Temp. & Humid. Sensor (pair)
5. Smoke Sensor
6. Water Sensor
7. LED Alarm Beacon
8. M series iPDU (pair)
9. Door Mount Fan at Rear Door (pair)

Scenario 2
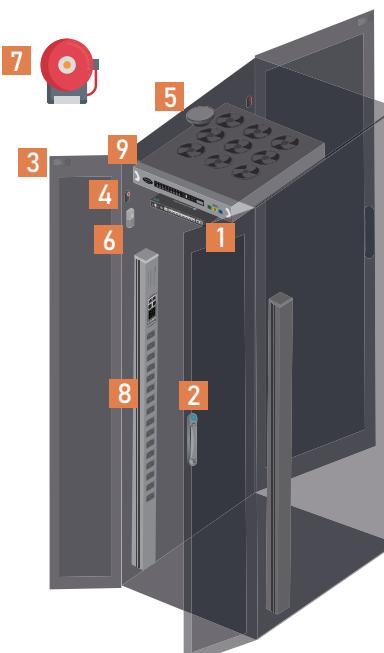
1. InfraBox Z-3001
2. Z-800 Smart Handle (pair)
3. Mechanical Door Sensor (pair)
4. Temp. & Humid. Sensor (pair)
5. Smoke Sensor
6. Shock Sensor
7. 3rd Party Alarm System
8. M series iPDU (pair)
9. 1U Fan Tray

* The latest InfraBox Z-3001 controller, powered by ARM9 CPU (Microchip AT91SAM9G25)

Intelligent Rack Access Control Solution
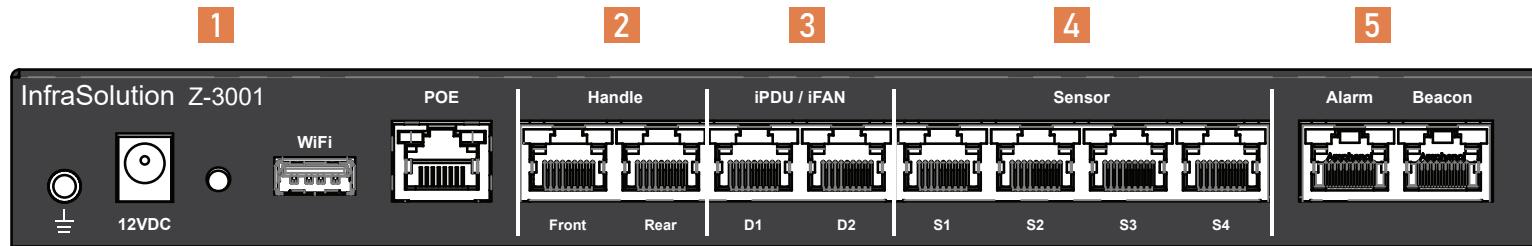
1 **Network & Power Connection**

- **PoE (Power over Ethernet) :**
  Connect to PoE switch for network IP access & power.

- **USB WIFI Port :**
  Optional WIFI kit connection

- **Alternative 12VDC :**
  If PoE power connection unavailable

2 **Smart Handle Connection**

- **Z-700 smart access control package :**
  Swing handles + door sensors + control panel(s)
  or
- **Z-800 smart access control package :**
  Handles + door sensors

**3** **iPDU & iFAN Connection**

- **Intelligent PDU :** 1-Phase & 3-Phase PDUs
- **Intelligent Fan :** Door mount fan & 1U fan tray
- * iPDU and iFan support cascading up to 4 respectively

4 **S1 / S2 / S3 / S4 – Sensor Connection**

- **Temperature & Humidity Sensor :**
  Low profile design with magnetic base to affix to rack (2m or 4m)

- **Temperature Sensor :**
  Low profile design with magnetic base to affix to rack (2m or 4m)

- **Smoke Sensor :**
  Once triggered, red LED lights up with continuous beep sound (1m or 3m)

- **Shock Sensor :**
  Alert the physical vibration on the rack (1m or 3m)

- **Water Sensor :**
  Via 5M rope round the rack bottom, detect any fluid leakage (3m)

5 **Alarm & Beacon**

- **Alarm :**
  Connect to 3rd party alarm system

- **Blue LED Beacon :**
  Alerting user to alarm status (1m or 3m)
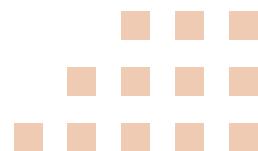
Key Benefits

Remote Management of Rack Access, Sensors & Multi-devices Over IP

- Complete remote rack access solution with monitoring, control, alarm & reporting.
- Wide range of sensors for complete environmental monitoring, including temperature, humidity, smoke, shock and water leakage.
- Integration support to 3rd party alarm system. Optional LED Beacon available for alerting user when problem occurred.
- Expandable to power and cooling management via connection to InfraPower M series Serial iPDU and InfraCool iFan respectively.

Save Manpower & Travel Costs

- Reduce manpower and travel costs by negating the need for staff to actually be at the rack location, improving uptime and productivity.

Enterprise Level IP Authentication

- Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS).
- Remote Access Dial-In User Service (RADIUS) protocol, or local credential database.
- Strong passwords and granular user/user group permissions.
- Support high-speed network IP via Gigabit IP LAN port.

3rd Party DCIM & Software

- Supports 3rd party DCIM via SNMP V2 / V3
- Licensed InfraSolution Z Premium available for comprehensive remote management of rack access, sensors & multi-devices.
- Remote management protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4.

POE & WIFI

- POE reduces the implementation time of electrical power cablings, and negate the need for separate installation of data and power infrastructures.
- Optional WiFi kit (IPD-WIFI) complies with 802.11 g/n/ac.
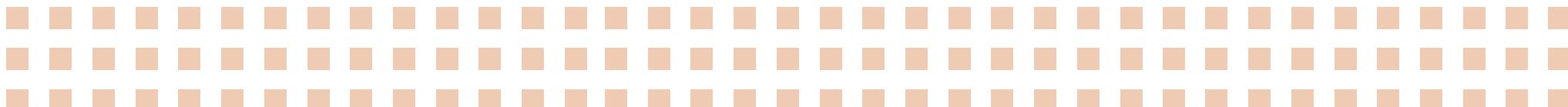
Z-700 Smart Handles

To satisfy high level data center security requirements, Austin Hughes developed the rack access solution with alloy swing handles & 2.8" touchscreen control panel. The InfraSolution Z-700 smart handle package provides an innovative yet affordable solution for secure rack access in today's data centers.

Z-700P		Features		Z-700M
	✔	Intelligent design with patent	✔	
	✔	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, or software	✔	
	✔	Rack access status and alarm indication by LED	✔	
	✔	Individually keyed lock options available	✔	
	✔	Left side opening standard (optional right side open)	✔	

Alloy Swing Handle with Universal Mounting Design

Cut-out **Back View** **Side View** **Front View** Unit : mm
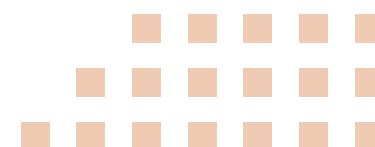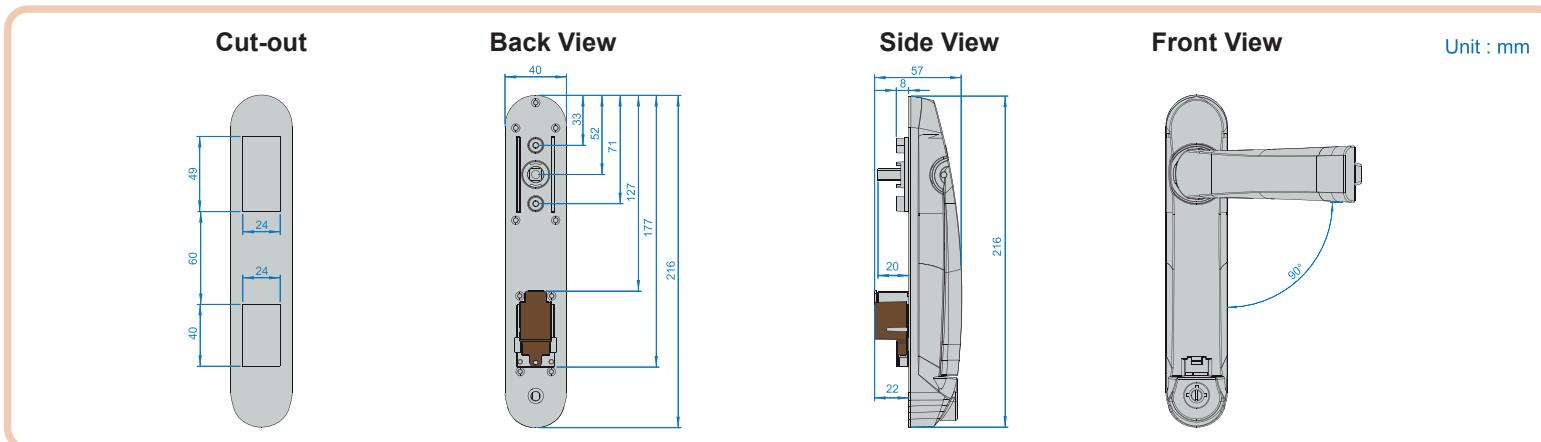
Z-800 Smart Handles

To meet the simple but highest level of rack access control solution, the smart handle Z-800 package applies the same handle mounting cut-out of most global branded IT server racks . It avoids costly and complicated door customization for the smartcard handle integration.

Z-800P		Features		Z-800M
PROXIMITY SMARTCARD	✔	Intelligent design with patent	✔	**MiFARE** SMARTCARD
	✔	Universal mounting design for global branded racks	✔	
	✔	Proximity 26-bit smartcard compatible		
		MiFARE 26-bit smartcard compatible	✔	
	✔	Dual locking system (electronic and mechanical lock)	✔	
	✔	Electronic lock released either by smartcard or software	✔	
	✔	Rack access status and alarm indication by LED	✔	
	✔	Individually key lock option available	✔	
	✔	Left side opening standard (optional right side open)	✔	

Universal Mounting Design

Cut-out   Back View   Side View (Closed) Side View (Opened)   Unit : mm
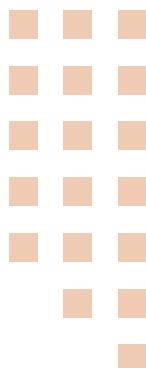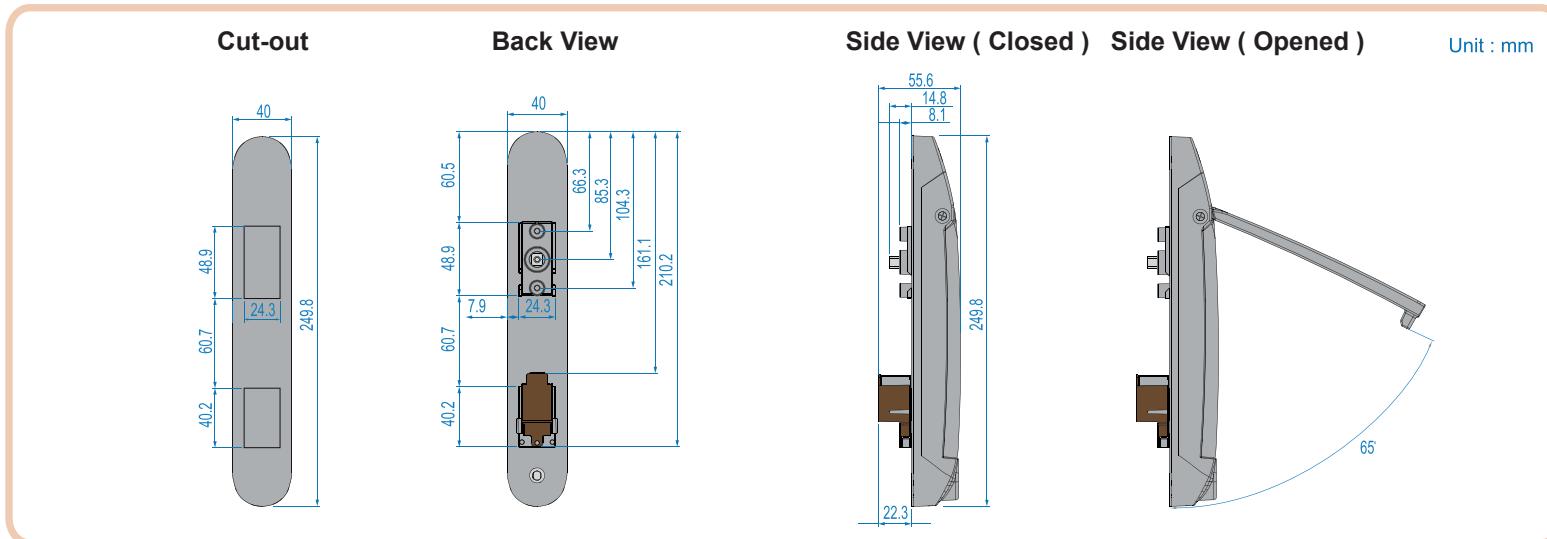
Connection Diagram - Z-700 Smart Handles

Front Door

Rear Door

POE hub

Z-3001 POE

InfraSolution Z-3001

Cat 5 / 6 cable

Door Sensor

Control Panel

Door Sensor

T / TH Sensor

Front Handle

T / TH Sensor

Rear Handle

① InfraBox Z-3001

② Smartcard handle

③ Mechanical or IR door sensors with 6ft cable

④ Door cable

⑤ T / TH Sensor

⑥ Control Panel

* Packages available with single or dual control panels
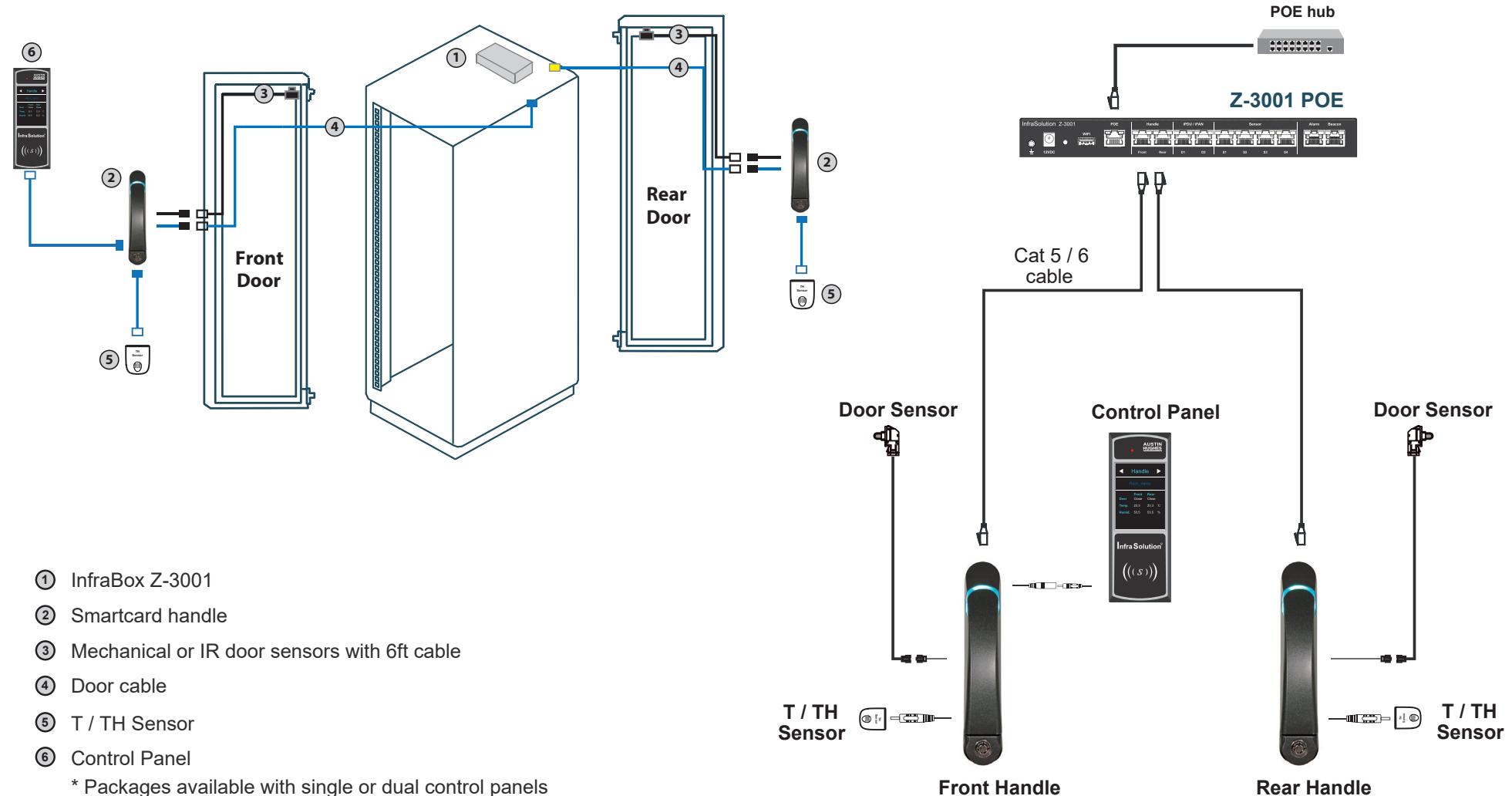
Connection Diagram – Z-800 Smart Handles

POE hub

Z-3001 POE

Rear Door

Front Door

Cat 5 / 6 cable

Door Sensor

Door Sensor

Front Handle

Rear Handle

① InfraBox Z-3001

② Smartcard handle

③ Mechanical or IR door sensors with 6ft cable

④ Door cable
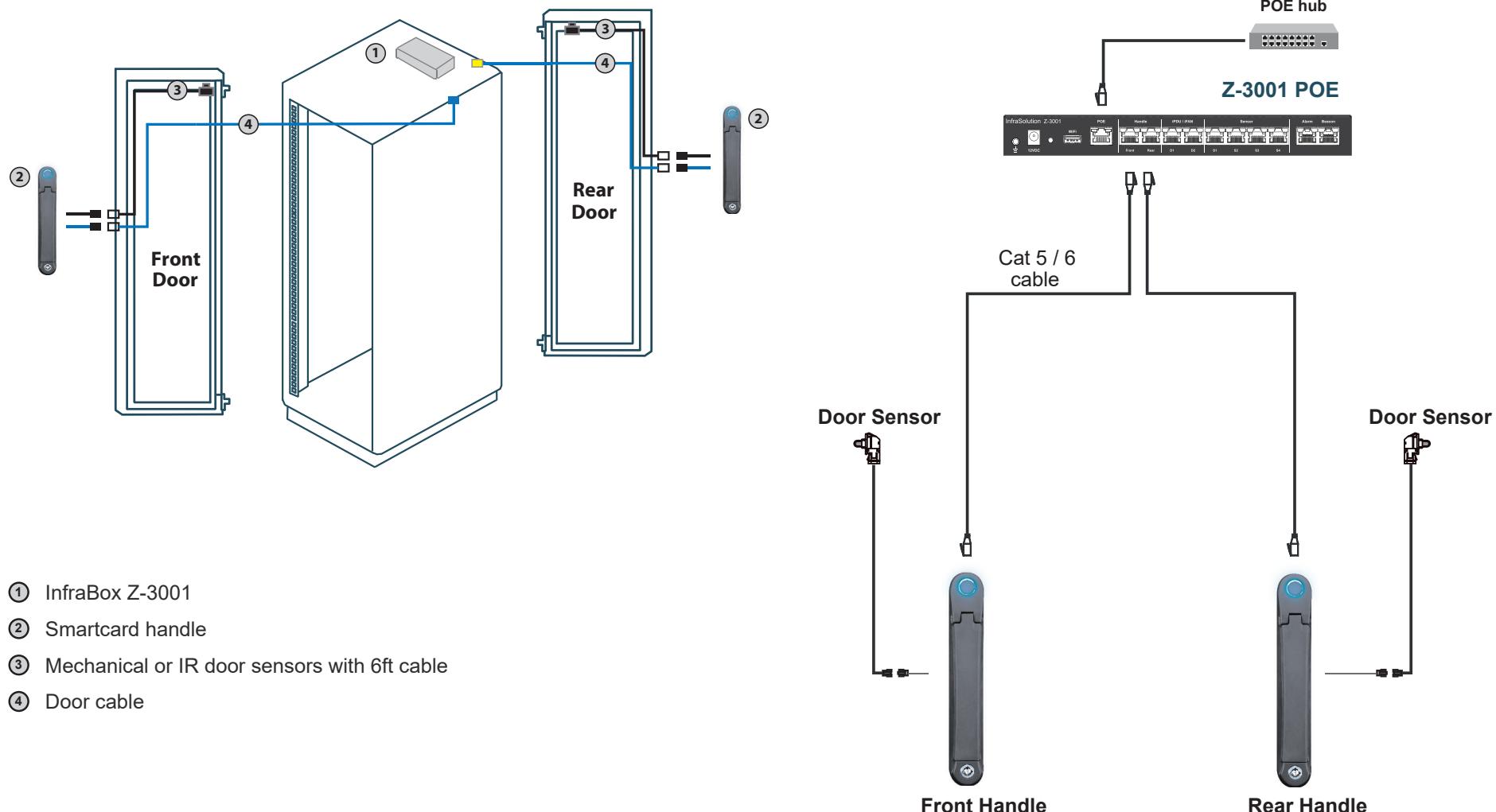
Remote Management Over IP

InfraSolution helps reducing manpower and hence improving uptime and productivity. It also benefits users with capacity planning and increasing the overall efficiency of the data center.

InfraSolution Z-3001 offers 2 ways of remote management solutions for users' selection.

## 1 ▶ Licensed InfraSolution Z Premium (ISP-Z3001)

Each InfraBox connects a pair of smartcard handles to secure the rack access control, and connect a variety of sensors to provide an environmental monitoring solution. To enhance the functionality, up to 4000 x kWh PDU / 4000 x Fan Unit can be monitored through InfraSolution Z Premium. Up to 100 concurrent users can access the management software remotely to achieve the demand of multi-user / multi-tasking in nowadays' time sharing data center operation.

### Key Benefits

■ The device template function allows users to copy settings to multiple Z-3001 boxes to save implementation time.

■ Via remote handle unlock by group, user can select multiple handles and release them remotely simultaneously.

■ High security level mechanisms including Local User Authentication, Lightweight Directory Access Protocol (LDAP) & Microsoft Active Directory (AD).

Normal Status

1A

18.0 °C
50.9 %
6.0 kW
28.00 Amp
12.00 kWh

F🔒💻 | R🔒💻

Alarm Status

1B

35.0 °C
50.9 %
0.0 kW
0.00 Amp
0.00 kWh

Alarm : 🔌 2 | 🌀 2 | ◎
2 | ❌ 2
Warn : 🌡° 1

F🔒💻 | R🔒💻

Door Status				Alarm			
🔒	🔓	🚪	🚪	◎	🔌	🌀	💧
Lock	Unlock	Close	Open	Handle	PDU	Fan	Smoke
				🌡°	💧%	💧	💥
				Temp.	Humid.	Water	Shock
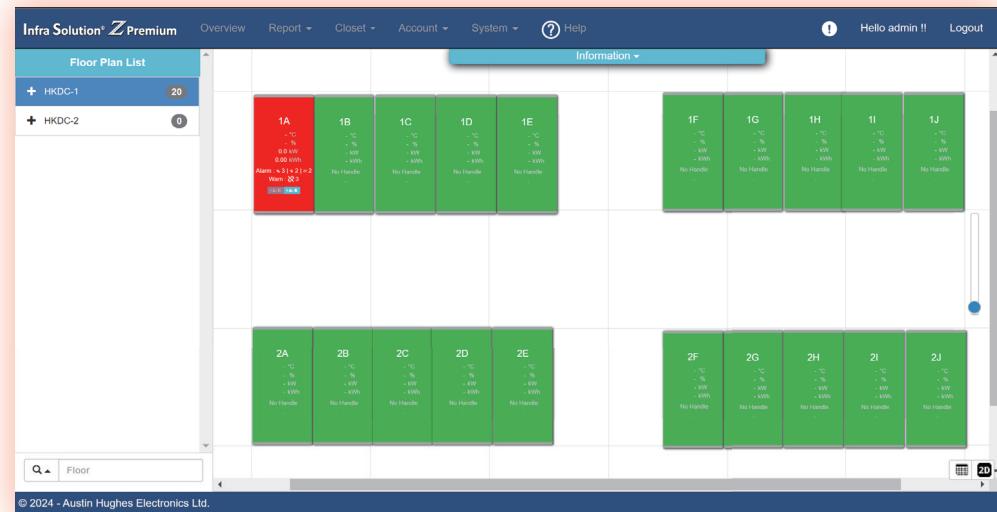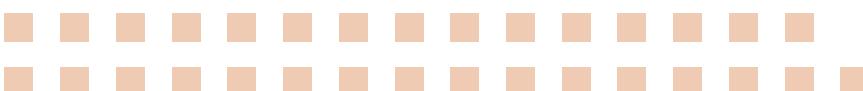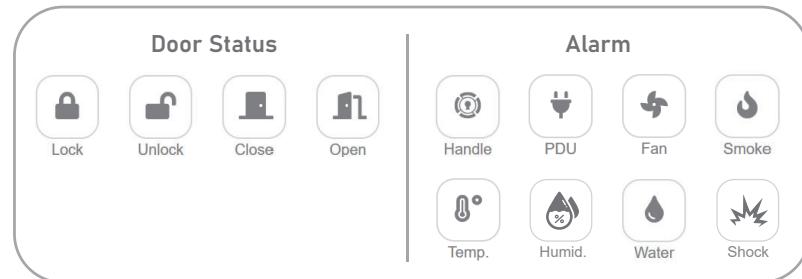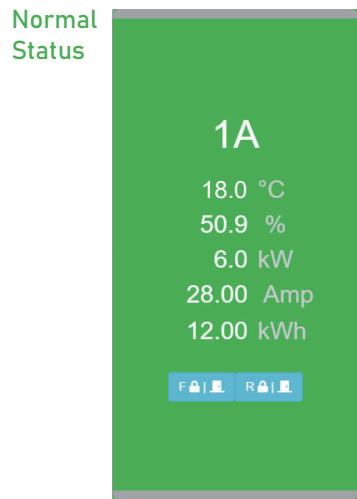
Features of InfraSolution Z Premium (ISP-Z3001)	
Capacity	1000 x InfraBox (max.)
	100 x Concurrent User (max.)
System Setup	Backup / Restore Setting
	Alarm Mail Server Setting
	Audio and Visual Alarm Output Setting
Cabinet Overview Door	Status of Door, PDU, Sensor & Fan Unit
	Door Open by Remote
	Last Door Open & Close Record
Sensor / Peripheral	Status Monitoring
	Temp-Humid Alarm Threshold Setting
PDU	Energy Consumption kWh / Amp Monitoring
	Outlet Level Measurement
	Outlet Switch ON / OFF
	Amp Alarm Threshold Setting
	Amp Rising / Low Alert Threshold Setting
	Temp-Humid Monitoring
Fan Unit	CFM & Temp. Monitoring
	Unit CFM (fan speed) Setting
	Auto CFM Control Setting
	Individual Fan Kit ON / OFF
	Fan Unit ON / OFF
Chart / Event / Reporting	System & Device Event Reporting
	Temp-Humid Line Chart of InfraBox

2

▶ 3rd Party DCIM via SNMP V2/V3 or REST API

Many data centers apply DCIM (Data Center Infrastructure Management) to centralize the management for monitoring rack status, security, power, cooling and environmental factors across facilities and IT systems. InfraSolution Z-3001 supports SNMP or REST API integration and hence user can remotely manage the rack access control, power, cooling, sensors & peripherals via their DCIM.

Model Comparison

Austin Hughes offers sophisticated security solutions for your rack environment, including a comprehensive range of standalone to networked rack access control. InfraSolution covers networked Z-3001, X-2000 series, and standalone series. For each series, Customer can select 700-handle or 800-handle package.

InfraSolution Rack Access Control Features	Z-3001		X-2000	Standalone	
	Z-700	Z-800	X-800	S-700	S-800
Control Box :					
Embedded 100/1000 LAN IP	●	●	●		
Handle Ports (Front & Rear)	●	●	●		
Built-in Sensor Ports	●	●	●		
Built-in Beacon & Alarm Ports	●	●	●		
48V PoE Input, IEEE 802.3af standard	●	●			
12V External Power Adapter Input	●	●	●		
Smart Handle Package :					
Rugged Alloy Swing Handles with Universal Mounting Design	●			●	
Rugged Handles with Universal Mounting Design		●	●		●
Control Panel :					
Control Panel w/ 2.8" Touchscreen	●			●	
Dual Authorization : Smartcard + Numpad	●			●	
Door Sensor Selection :					
Mechanical Door Sensor	●	●	●	●	●
IR Door Sensor	●	●	●	●	●

Model Comparison

Austin Hughes offers sophisticated security solutions for your rack environment, including a comprehensive range of standalone to networked rack access control. InfraSolution covers networked Z-3001, X-2000 series, and standalone series. For each series, Customer can select 700-handle or 800-handle package.

InfraSolution Rack Access Control Features	Z-3001		X-2000	Standalone	
	Z-700	Z-800	X-800	S-700	S-800
Rack Access :					
125K Proximity Smartcard Reader	Z-700P	Z-800P	X-800P	S-700P	S-800P
13.56M MiFARE Smartcard Reader	Z-700M	Z-800M	X-800M	S-700M	S-800M
Electronic Lock Released by Smartcard + Numpad	●			●	
Electronic Lock Released by Smartcard		●	●		●
Electronic Lock Released by Software	●	●	●		
Mechanical Lock in case of Emergency	●	●	●	●	●
Rack Access Status & Alarm Indication by Handle LED	●	●	●	●	●
Remote Management Over IP :					
Built-in Web Based Management GUI					
- DCIM support : SNMP V2 / V3 & Rest API	●	●	●		
Licensed Management Software	●	●	●		
Sensor Options :					
Sensor Support : Temperature-humidity / Temperature / Smoke / Shock / Water	●	●	●		
Multi-device Options :					
Intelligent PDUs - Monitored, Switched, Outlet Measurement	●	●	●		
Intelligent Fans - Door Mount Panel, Rackmount Fan Tray	●	●	●		

AUSTIN HUGHES ®

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Austin Hughes has an extensive distribution network,including the Americas, EMEA, APAC & ASEAN.

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