

InfraSolution® Z-3000 Series

PoE Rack Management for Your Data Center

Z-3001 Rack Access + Monitoring



Z-3000 Rack Monitoring



Simple. Flexible. Compact.



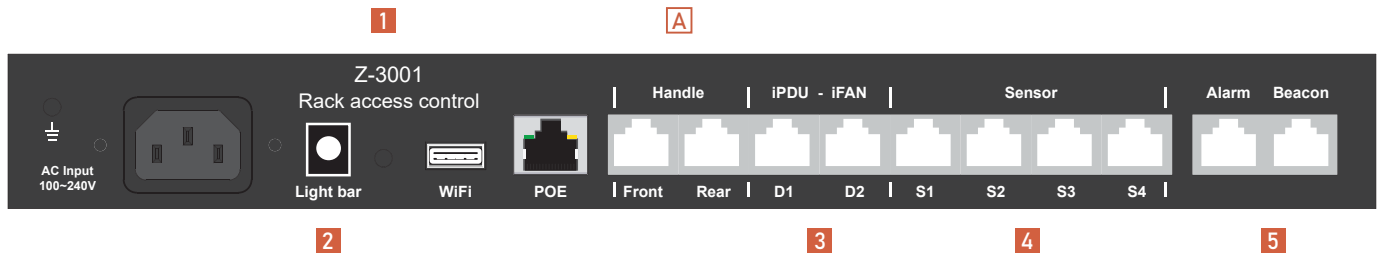
Rack management has become critically important for all data centers and server rooms, serving as the first line of defense against downtime and operational inefficiencies.

InfraSolution addresses this vital need with precision.

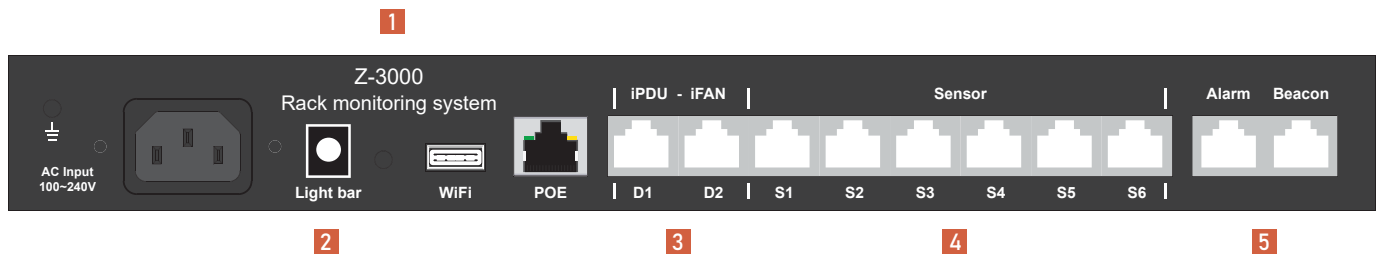
Z-3000 model provides comprehensive rack monitoring of critical environmental, power, and airflow conditions.

Advanced Z-3001 model combines the environmental insights of the Z-3000 with extra rack smartcard access control.

Z-3001 - Intelligent Rack Access Control + Monitoring Solution



Z-3000 - Intelligent Rack Monitoring Solution



A Smart Handle Connection (Z-3001 only)

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

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 AC Input (100~240V) :
 - If PoE power connection unavailable

2 LED Light Bar Connection

- LED Light Bar (2m or 3m) :
 - Low-profile design allows flexible positioning
 - Magnetic base design for tool-less affix
 - Auto light on / off when door opens / closes, respectively

3 iPDU & iFAN Connection

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

4 Sensor Connection

- Temperature & Humidity Sensor (2m or 4m) :
 - Low profile design with magnetic base to affix to rack
- Temperature Sensor (2m or 4m) :
 - Low profile design with magnetic base to affix to rack
- Smoke Sensor (1m or 3m) :
 - Once triggered, red LED lights up with beep sound
- Shock Sensor (1m or 3m) :
 - Alert the physical vibration on the rack
- Water Sensor (3m) :
 - Via 5M rope round the rack bottom, detect any fluid leakage

5 Alarm & Beacon

- Alarm :
 - Connect to 3rd party alarm system
- Blue LED Beacon (1m or 3m) :
 - Alerting user to alarm status

Key Benefits

Rack SmartCard Access Control

- With Z-3001, complete rack remote management with smartcard access control (Proximity or MiFARE) can be achieved.

Rack Sensor / PDU / Fan Monitoring

- Both Z-3001 & Z-3000 provides comprehensive rack sensor monitoring solution with 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), RADIUS protocol, or local credential database.
- Strong passwords and granular user/user group permissions

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 power cabling, and negate the separate installation of data and power infrastructures.
- Optional WiFi kit (IPD-WIFI) complies with 802.11 g/n/ac.

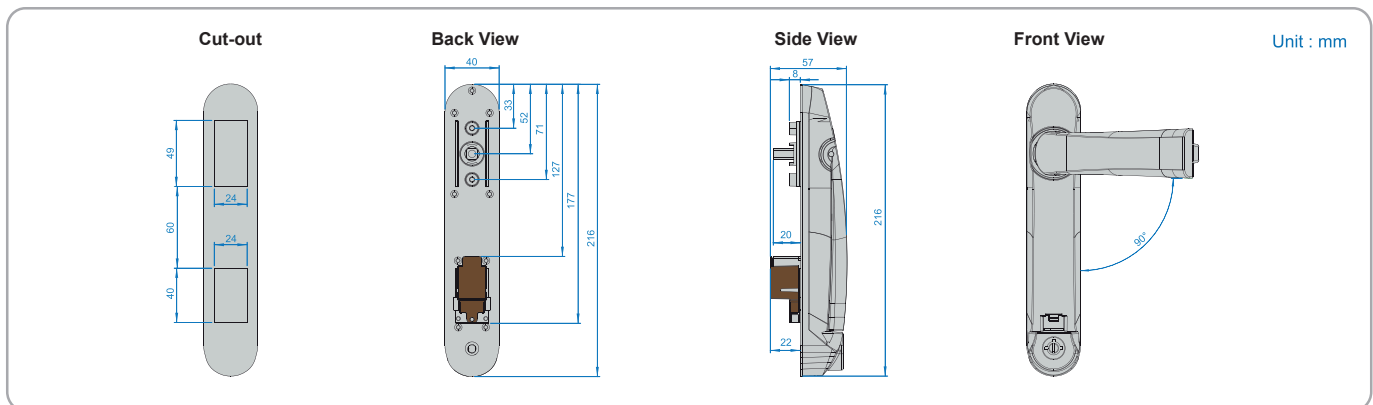
InfraSolution Z-3000 Series	Z-3001		Z-3000
	Z-700	Z-800	
Management Solution :			
Rack Access Control + Sensors / PDU / Fan Monitoring	●	●	
Rack Sensor / PDU / Fan Monitoring			●
Control Box :			
Embedded 100/1000 LAN IP	1	1	1
WIFI port	1	1	1
Handle Ports (Front & Rear)	2	2	
Sensor Ports	4	4	6
Multi-device Ports	2	2	2
Built-in Beacon & Alarm Ports	2	2	2
LED Light Bar Port (support single or dual LED package)	1	1	1
48V PoE Input, IEEE 802.3af standard	1	1	1
2.5A Power Input (Auto-sensing 100 to 240VAC, 50 / 60Hz)	1	1	1
Dimension (W x D x H)	310 x 160 x 35 mm		310 x 160 x 35 mm
Smart Handle :			
Rugged Alloy Swing Handles with 2.8" Touchscreen Control Panel	●		
Rugged SmartCard Handles		●	
Remote Management Over IP :			
DCIM support : SNMP V2 / V3 & Rest API	●	●	●
Licensed Management Software	●	●	●
Sensor Options :			
Door / Temperature-humidity / Temperature / Smoke / Shock / Water	●	●	●
Multi-device Options :			
Intelligent PDUs - Monitored, Switched, Outlet Measurement	●	●	●
Intelligent Fans - Door Mount Fan Panel, Rackmount Fan Tray	●	●	●

Z-700 Smart Handles

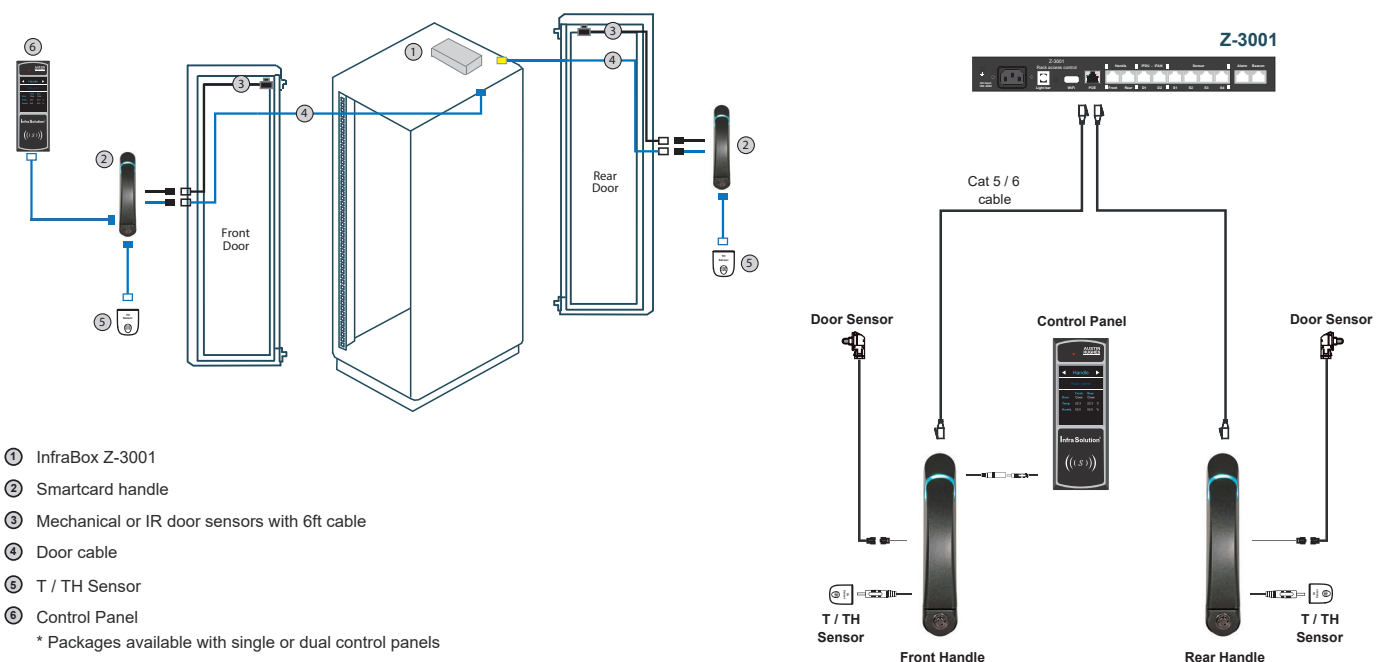
To satisfy high level data center security requirements, Austin Hughes developed the rack access solution with alloy swing handles & 2.8" touchscreen control panel. The InfraSolution Z-700 smart handle package provides an innovative yet affordable solution for secure rack access in today's data centers.

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



Connection Diagram

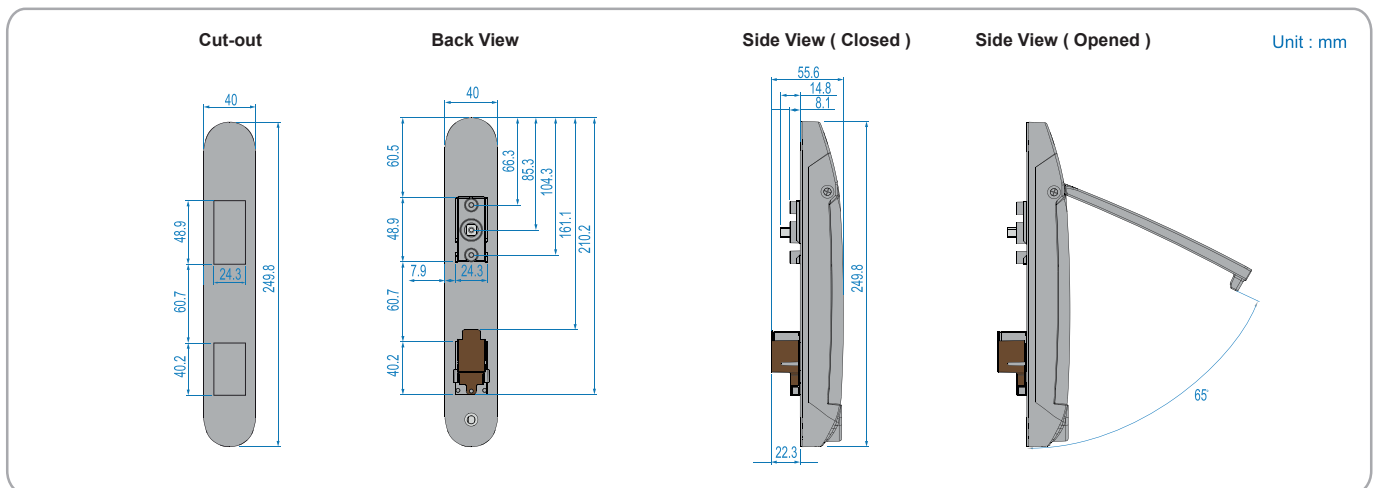


Z-800 Smart Handles

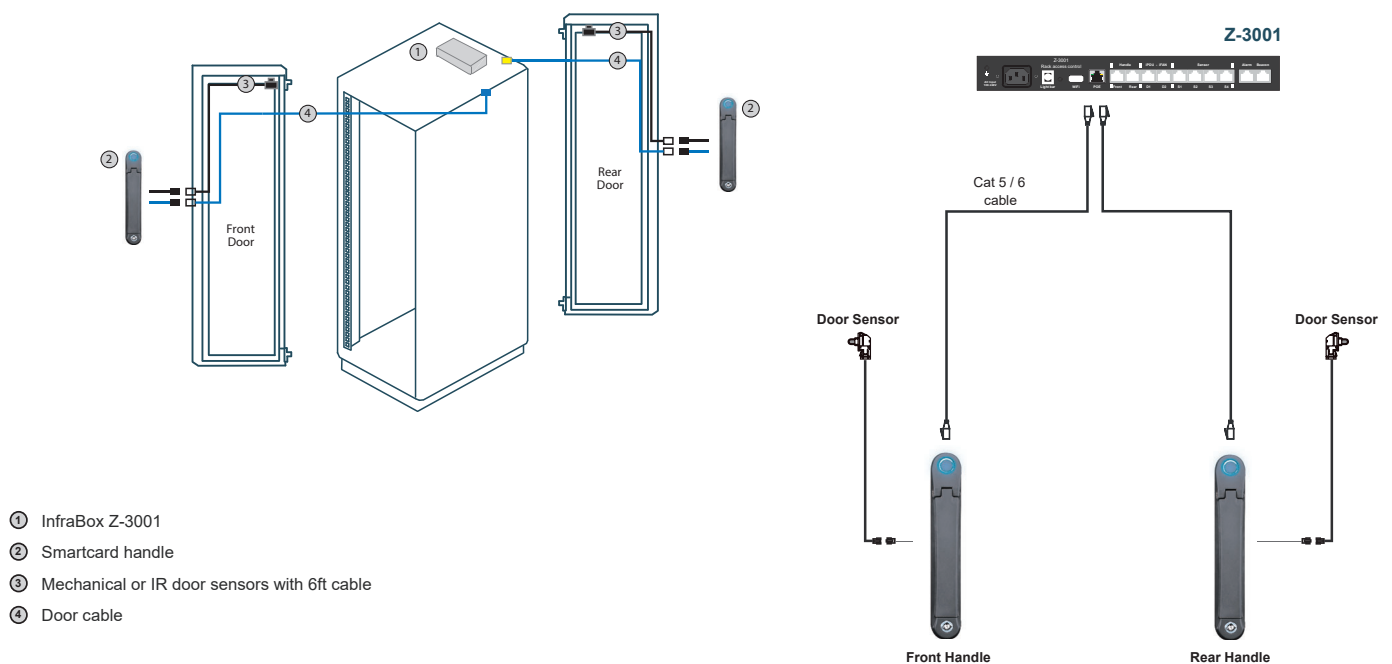
To meet the simple but highest level of rack access control solution, the smart handle Z-800 package applies the same handle mounting cut-out of most global branded IT server racks . It avoids costly and complicated door customization for the smartcard handle integration.

Z-800P		Features		Z-800M
	✓	Intelligent design with patent	✓	
	✓	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



Connection Diagram



Sensors & Peripherals

To maintain optimum operational conditions in data centers, getting instant notification of various environmental fluctuations is vital.

InfraSolution Z-3001 / Z-3000 offer variety of sensors for complete environmental monitoring, including temperature, humidity, smoke, shock and water leakage, etc. Optional peripherals such as flashing LED beacon and integration support to 3rd party alarm system are designed for use with the sensors for a comprehensive local environmental monitoring solution.

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

Z-TH01-2M / 4M



Temperature & Humidity Sensor

- Temp. & Humid. Accuracy : $\pm 0.2^{\circ}\text{C}$ & $\pm 2\%$ RH
- Low profile design with magnetic base for easy affixing to the rack
- Plug & play
- 2M or 4M cord

Z-T01-2M / 4M



Temperature Sensor

- Temp. Accuracy : $\pm 1^{\circ}\text{C}$
- 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-V01-1M / 3M



Shock Sensor

- Once sensor alerted the physical vibration on the rack, red LED lights on
- 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-FB03-1M / 3M



Blue LED Alarm Beacon

- Highly visible for alerting user to alarm status
- 1M or 3M cord

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

CLB-IX-002 / 3



LED Light Bar

- Mini design with magnetic base for tool-less affix
- Auto light on / off when door opens / closes, respectively
- 2M or 3M cord

Multi-function Devices

Rack iPDU InfraSolution Z-3001 / Z-3000 supports new InfraPower M-series Serial iPDUs, including a comprehensive range of 1-Phase & 3-Phase PDUs with a new design intelligent meter and lockable / combo IEC outlets.

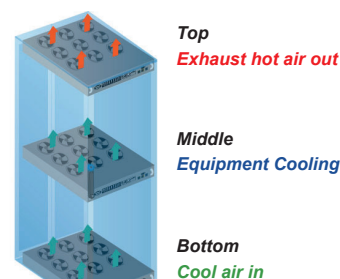
Intelligent PDU Features	InfraPower M-2000 Series			
	M	Mi	MS	MSi
Strip / Circuit Level Power Monitoring	•	•	•	•
Outlet Level Power Monitoring		•		•
Outlet Switching On/ Off			•	•
PDU Cascade Up to 4 levels under Z-3000	•	•	•	•
Billing Grade Meter Accuracy Within +/- 0.5%	•	•	•	•
Hot-Swappable Meter with 2.8" Color Touch ID	•	•	•	•
Field Replaceable DC Module	•	•	•	•
USB-C Port for Meter Backup Power Source	•	•	•	•
Sensor Support : Temp + Humid / Temp / Smoke / Door Sensors	•	•	•	•
Configuration Range :	110V, 208V, 230V, 400V, 415V and More Volt	•	•	•
	10A to 100A Amp Inputs	•	•	•
	0U, 1U & 2U form factor for standard models	•	•	•
Outlets :	C13 / C19 / Combo 4-in-1	•	•	•
	C13 + C19 / C13 + Combo 4-in-1	•	•	•
	(Slide-lock version available on request)	•	•	•
	Nema / UK / GR	•	•	•
	Nema + IEC / UK + IEC / GR + IEC	•	•	•
Safety Devices :	Hydraulic MCB / Resettable Fuse	•	•	•
	ELCR / Surge Protector / EMI Filter / RCM	•	•	•
Operating Temperature -5 to 60°C	•	•	•	•



Rack iFan Cooling the equipment is always important.

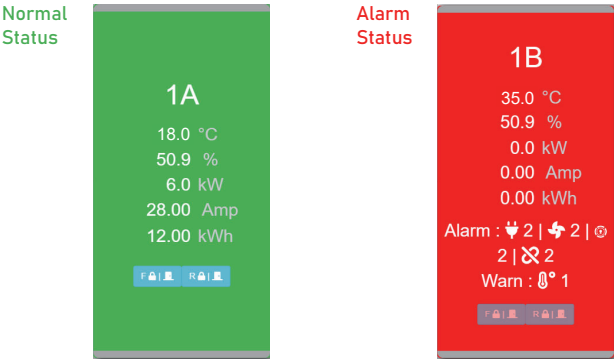
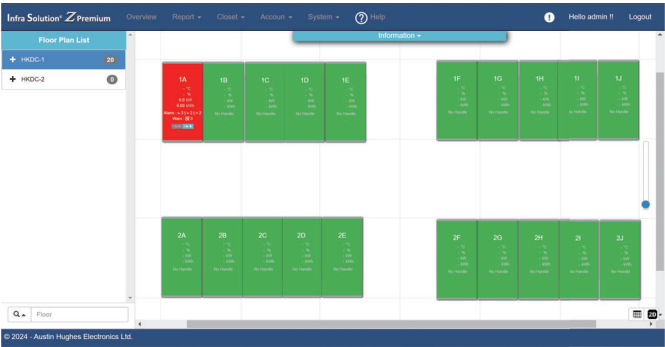
InfraBox Z-3001 / Z-3000 can be connected to InfraCool intelligent fans for a complete rack airflow solution.

Intelligent Fan Features	InfraCool Fan Series	
	Door Mount Fan Panel RF-33.9	1U Fan Tray RF-1.6 / RF-1.9
Fan Number	9	6 / 9
Total CFM	972	648 / 972
Airflow	The diagram illustrates the airflow patterns for the Door Mount Fan Panel. It shows 'Front Door Cool Air In' with blue arrows pointing into the rack and 'Rear Door Hot Air Out' with red arrows pointing out of the rack.	
Fan Cascade Up to 4 Levels to InfraBox	•	•
Temperature sensor bundled	1	1
Automatic Fan Speed Control	•	•
Control Panel :	Individual Fan On / Off	•
	Setting for Alarm Temp. & Unit CFM (fan speed)	•
	LEDs for Temperature, Fan Status, CFM Status	•



▶ **Licensed InfraSolution Z Premium**

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.



Features of InfraSolution Z Premium	
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

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

Many data centers utilize DCIM (Data Center Infrastructure Management) to centralize the monitoring and management of rack status, security, power, cooling, and environmental factors across facilities and IT systems. The InfraSolution Z-3001 and Z-3000 models support SNMP and REST API integration, allowing users to remotely manage their InfraSolution components via their DCIM.



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