EDGEWORKS
Data Centre
EdgeMOD – Modular Data Center

Foundation of Digital Future

The full series of rack and containment solutions to build your data centre with flexibility and quality.
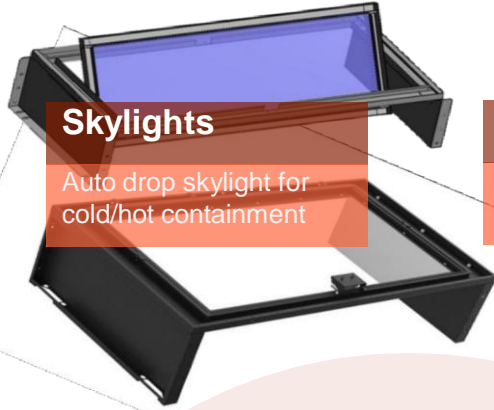
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Containment Solutions

Skylights

Auto drop skylight for cold/hot containment

Light Duty Layer

Rack mount layer for normal equipment

Racks

Full series of rack solution in all size.

Heavy Duty Layer

Rack mount layer for heavy weight equipment

Cable Management

Rack mount Cable management systems.

Blank Panel

Quick installation no-tool type blank panel.

Vertical Cable Tray

Rack mount vertical cable tray

End Doors

Sliding end door manual or automatic type

Top Cable Tray

Top cable tray for power cable and signal cables

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EdgeMOD Containment Type

Modular Data Center Solutions

The one-stop solution for sustainable digital efficiency and protection.

🚀 Solution Benefits

Optimized Efficiency

- Free cooling with refrigerant type indirect free cooling.
- Aisle containment no energy loss from cold/hot air mix.
- High efficient components including inverter compressors, EC fans and green refrigerant.
- Real time PUE measuring and monitoring.
- UPS supports ECO energy saving mode.
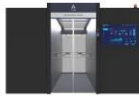
Standardized Management and Monitoring

- LEGO style standard product modules for easy duplicated management.
- Local and remote monitoring protocol for easy control and visualization.
- Real time alert/notification for peace of mind performance.
- Easy purchasing, installation, and service process with pre-defined designs.

Integrated Protection and Security

- TIER 1~4 design compatibility.
- Secure access control of each doors.
- Compatible with fire system by automatic action to top panels and air conditioners.
- Video surveillance with live view and backup recording.

🛢 Design Features

Smart Module with Larger Display

- 21 inch/43 inch display per configuration.
- Smart doors automatic open/close.
- Top panel automatic open per fire signal.
- Blue/Orange/Red led lights status indication.
- Modular construction suitable for future expansion.

Green Precision Cooling

- 5-90kW Row cooling, or 5-200kW Room cooling.
- Green efficiency type free cooling options.
- High efficiency technology with inverter and EC fan
- Works for -40C ~ +55C ambient temperature.

Hybrid Power in Modular Form

- Standard design rack mount type UPS/48VDC rectifier saving space.
- VRLA and Lithium battery by configuration.
- Smart PDU per configurations.
- Built in power distribution panels configurable to T1~T4 uptime level.

Secured IT Rack System

- Secured by access control system with optional smart locking.
- 1800kg static loading capacity IT racks.
- Optional with solid rear door for better airflow management.

Insightful DCIM System

- Full communication to UPS, cooling, power panel, and all type of sensors.
- Integration with access control system.
- Integration with video surveillance system.
- Local display and settings on touch screen.
- Remote accessible from web, SMS, Email, Modbus-TCP. Optional with SNMP.

Unified Access Control System

- 3 in 1 type (pin/password/fingerprint) access control protection. Optional 4 in 1 (+face recognition) access control protection.
- Central and remote management by standalone software.
- Integration into DCIM system.

> Customized Efficiency

Rack Solutions

Technical Data – Rack and Accessories

Item	Model	Width	Depth	Height	Size	Material	Notes
Racks 19"							
Rack	R60824-P	600	800	1000	24U	Powder coated steel	1800kg loading capacity
Rack	R61024-P	600	1000	1000	24U	Powder coated steel	1800kg loading capacity
Rack	R60842-P	600	800	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R80842-P	800	800	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R61042-P	600	1000	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R81042-P	800	1000	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R61142-P	600	1100	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R81142-P	800	1100	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R61242-P	600	1200	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R81242-P	800	1200	2000	42U	Powder coated steel	1800kg loading capacity
Rack	R61247-P	600	1200	2300	47U	Powder coated steel	1800kg loading capacity
Rack	R81247-P	800	1200	2300	47U	Powder coated steel	1800kg loading capacity
Accessories							
Blank Panel	R-OP1N	483	35	1U	0.15	Powder coated steel	
Blank Panel with Brush	R-OP1B	483	15	1U	0.4	Powder coated steel	
Horizontal Cable Management	R-OCHNB1	483	70	1U	0.8	Powder coated steel	
Vertical Cable Management	R-OCVNP42	80	15	42U	1.5	Powder coated steel	
L Shelf	R-OSL	40	680	-	0.8	Powder coated steel	40kg loading capacity
Light Weight Layer	R-OSU71	470	710	-	3.8	Powder coated steel	40kg loading capacity
Heavy Weight Layer	R-OSF71	470	710	-	7.0	Powder coated steel	160kg loading capacity

Notes:
1, Paint color can be specified.
2, Rack with split doors & compartments is customizable.
3, Other customization is negotiable.

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Rack Solutions

Technical Data – Containment and Accessories

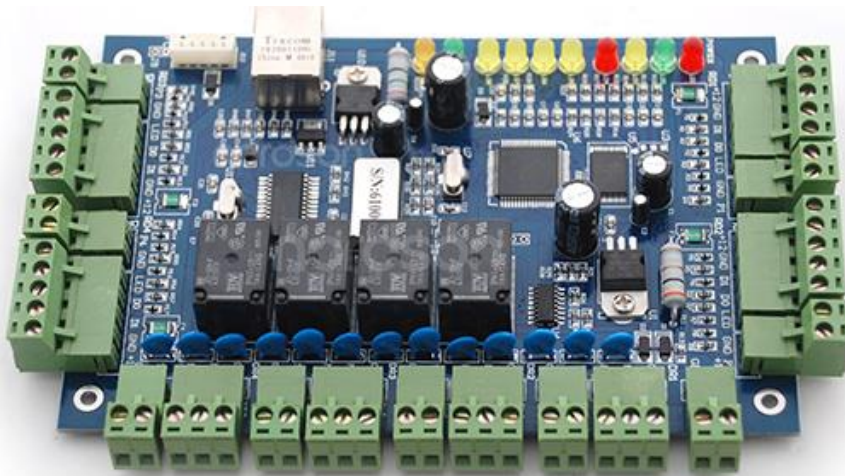| Item	Model	Width	Depth	Height	Weight	Color	Notes
Containment							
Manual End Door	IAS-D12SN	3600	185	2320	210	RAL9005	
Automatic End Door	IAS-D12SA	3600	185	2320	230	RAL9005	
600 Top Panel Fix Type	IAS-T630N	600	1350	300	18	RAL9005	
600 Top Panel Hinge Type	IAS-T630D	600	1350	300	18	RAL9005	
800 Top Panel Fix Type	IAS-T830N	800	1350	300	24	RAL9005	
800 Top Panel Hinge Type	IAS-T830D	800	1350	300	24	RAL9005	
300 Top Panel Fix Type	IAS-T330N	300	1350	300	12	RAL9005	
400 Top Panel Fix Type	IAS-T430N	400	1350	300	16	RAL9005	
Cold/Hot Aisle System Controller	IAS-CB	440	688	2U	25	RAL9005	
Top Wiring Ladder	IAS-RQ3	480	2650	460	30	RAL9005	
300 Top Cable Management	IAS-ORR312	300	300	200	3	RAL9005	
600 Top Cable Management	IAS-ORR612	600	360	150	6	RAL9005	Seperation of power and signal wiring
800 Top Cable Management	K-ORR812	800	360	150	8	RAL9005	Seperation of power and signal wiring

Notes:
1, Customization is negotiable.

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Access Control System

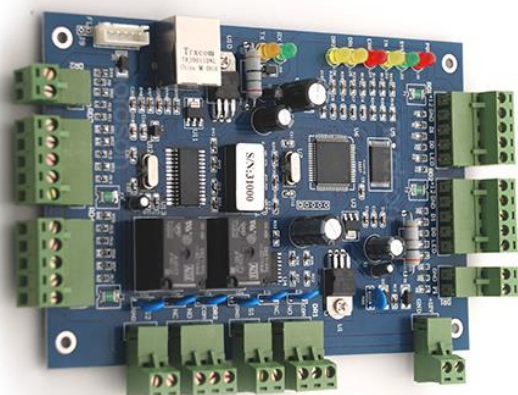## IP55, RFID Smart Lock
ACS-CT02/04

ACS-CT series Network Access Controller supports Wiegand reader communication and remote management, to achieve a two-way entrances and with stable performance, fast communications, and network compatibility.

Key Features:

- Large-capacity flash memory, stored data is not lost for 10 years.
- Multiple identification methods to open the door.
- Support remote operation of door management.

- Auto-discovery within LAN Network.
- Support individual settings for each card.
- Support multi-user multi-units management and monitoring in real-time.
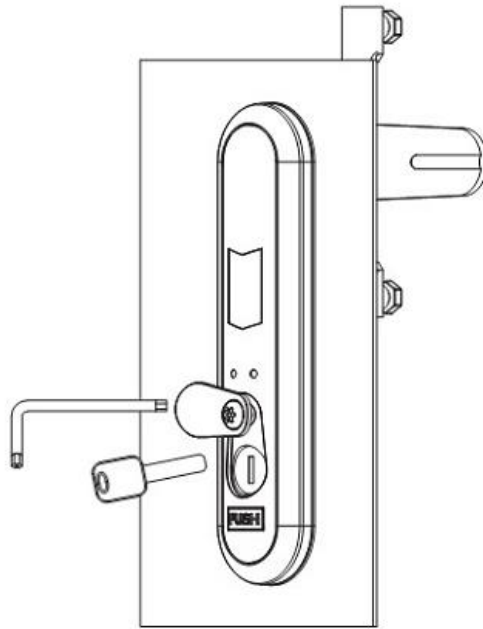
Network Access Controller

Technical Data

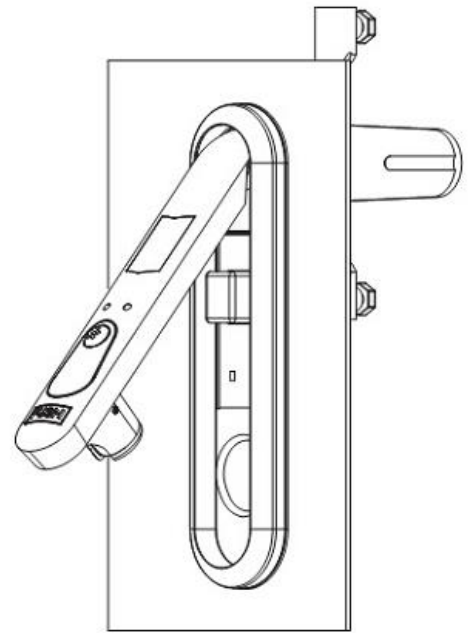| Model	ACS-CT02	ACS-CT04
Communication	TCP/IP 10M/100M adaptive	TCP/IP 10M/100M adaptive
Dimension	160mm *106mm *65mm	160mm *106mm *65mm
Power Supply	12VDC 4-7A	12VDC 4-7A
Power Consumption	Less than 100mA	Less than 100mA
Format of Reader	Wiegand 26	Wiegand 26
Quantity of Readers	4 pairs	4 pairs
Door Controlled	2 pairs	4 pairs
Door opening time extending setting	1-600 seconds(adjustable)	1-600 seconds(adjustable)
Operation Temperature	- 40C ~ +70C	- 40C ~ +70C
Operation Humidity	10-90%RH	10-90%RH
Qty of Users	20,000 Users	20,000 Users
Qty of Event Buffers(offline)	100,000 event buffers	100,000 event buffers

Access Control System

IP55, RFID Smart Lock
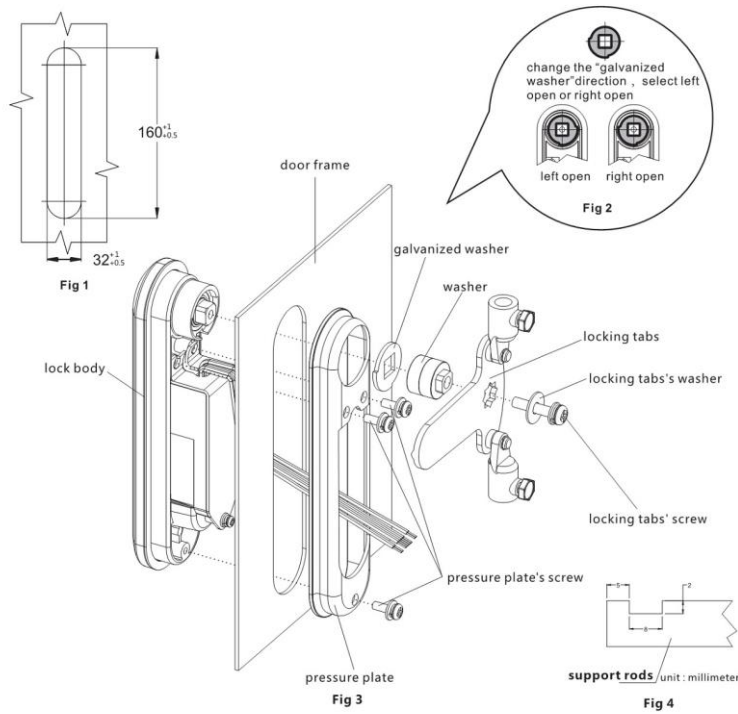## ACS-DLE1

key open lock   electronic control open lock

Key Features:

- Multiple lock open methods including RFID, Digital Input, mechanical key, and remote access control type.
- Same size with normal IT rack lock for easier installation and integration with existing rack system.

- Wiegand protocol supporting integration with access control system for easier management.
- Working to -40°C-55°C condition.
- Waterproof IP55 protection
- Zinc alloy + stainless steel materials for long working life application.

Smart Lock ACS-DLE1

change the "galvanized washer"direction , select left open or right open

left open   right open

Fig 2

door frame

galvanized washer

washer

locking tabs

locking tabs's washer

lock body

locking tabs' screw

pressure plate's screw

pressure plate

Fig 3

support rods / unit : millimeter

Fig 4

Fig 1

Technical Data

Model	ACS-DLE1
IP Level	IP55
Material	Zinc alloy body + stainless steel accessories + electronic ABS
Open Lock Method	RFID, Wiegand, DI
Communication	Wiegand protocol
Optional Functions	Door sensor input NO type
Power Supply	DC 10.8V – 13.2V
Verification Speed	≤0.5 sec
Operating Temp.	-40 °C~55 °C
Operating Humidity	20%-90%
Dimension	42mm×170mm×60mm (W×H×D)
Gross Weight	0.9kg

Access Control System
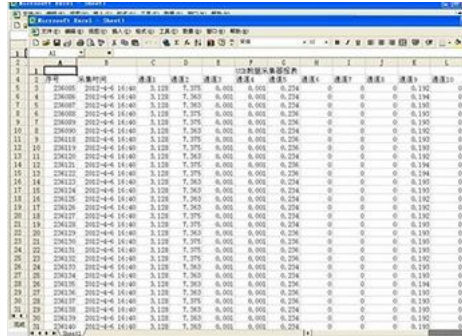
IP5X, 3 in 1 Access Control Reader
ACS-R31

ACS-R31 access controller is one of the most competitive products in the market. Offering perfect performance for access control system, pin, fingerprint and ID card, help you secure your critical assets easily.

It operates seamlessly with the interface for third party electric lock, alarm, exit button and doorbell.

Key Features:

- Full access control anti-pass-back.
- Less than 1.5 second finger recognition.
- Standalone mode complete setup and programming done via keypads and embedded firmware.

- Audio-visual indication for acceptance.
- Relay outputs for electric lock and alarm.
- Supports SD card data storage.
- Optional Mifare card reader supporting dual factor authentication.

3 in 1 Access Control Reader ACS-R31

Technical Data	
Model	ACS-R31
IP Level	IP5X
Fingerprint Capacity	500
ID Card Capacity	500
Record Capacity	500
LCD	-
Communication	USB-Host
Optional Functions	Mifare Card
Access Control Interface	3rd Party Electric Lock, Door Sensor, Exit Button, Door Bell
Authentication	Finger / PIN / Card
Power Supply	DC 12v
Verification Speed	<0.5 sec
Operating Temp	0°C~45°C
Operating Humidity	20%~80%
Dimension	151*61*31mm (Length*Width*Thickness)
Gross Weight	0.25kg

Access Control System

IP65, 3 in 1 Access Control Reader
ACS-O31

IP65 rated waterproof enclosure permits this reader to be used for outdoor applications. Built in with reliable, durable and highly accurate pin, RFID and fingerprint sensors.

Offering perfect performance for access control system, to be seamlessly integrated with the interface for third party electric lock, alarm, exit button and doorbell.

Key Features:

- Waterproof IP65 protection
- Working to -40°C/40°F condition
- Full access control anti-pass-back.
- Less than 1.5 second finger recognition.
- Standalone mode complete setup and programming done via keypads and embedded firmware.
- Audio-visual indication for acceptance.
- Relay outputs for electric lock and alarm.
- Supports SD card data storage.
- Optional Mifare card reader supporting dual factor authentication.

3 in 1 Access Control Reader ACS-O31

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Technical Data

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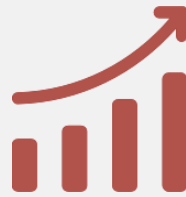|	
Model	ACS-O31
IP Level	IP65
Fingerprint Capacity	3,000
ID Card Capacity	10,000 EM(125 KHz)
Record Capacity	50,000
LCD	128 x 64 OLED with white color
Communication	TCP/IP, RS232/485,USB-Host
Optional Functions	Mifare(optional)
Access Control Interface	3rd Party Electric Lock, Door Sensor, Exit Button, Door Bell
Authentication	Finger / PIN / Card
Power Supply	DC 12V
Verification Speed	≤0.5 sec
Operating Temp.	-40 °C~50 °C (14°F ~ 122°F)
Operating Humidity	20%-80%
Dimension	62.5mm×185mm×41.5mm (W×H×D)
Gross Weight	1.5kg

Why Work with Us

We Expertise Modular Data Centers

Expertise

Products designed with heart featuring reliable quality and balanced performance to protect your business revenue.

Speed

A professional team always standby with service spirit and quick response to support your business agility.

Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications

Our Customer Success

We always think in customer perspective to support our customers success. We build our long term success with the values of customer first.

We believe the world is being totally connected. The digital connections are creating smart intelligence and a better future.

We design and deliver green efficient data center infrastructure products to build foundation of digital future.

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