iDCmini Family
All-in-one modular datacenter
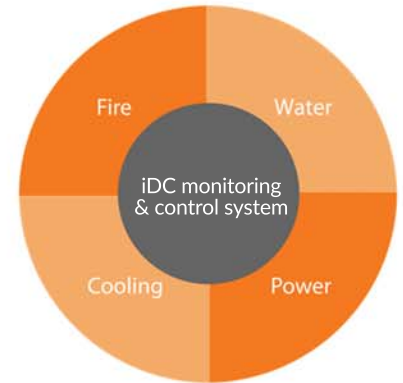
Transforming from tradition to innovation

In this new era of e-commerce, every industry relies on secure and robust IT infrastructure, which means a reliable and cost-effective datacenter is vital to every business.

A datacenter usually refers to a large computer room which consists of cooling, a UPS, FM200, racking, a raised floor and a monitoring system. It offers protection and an optimal environment for our IT equipment. However, the initial setup cost may be an important factor to consider, especially if there is not a lot of equipment that needs the mentioned protection.

To ease the pressure in datacenter investment, a series of innovative all-in-one datacenters which can meet the requirements of a traditional datacenter, the iDCmini Family, is launched. The iDCmini Family integrates all systems, such as a UPS, fire suppression and monitoring in a single rack. It features high reliability, easy relocation and cost effectiveness. The members of the iDCmini Family includes the iDC Air-15, iDC Air-42, iDCnano, iDCmini and iDCmini Duo, ranging from a budget friendly wall-mounted closet to high-end intelligent racks, to fit all environments in different business scenarios.

Fire | Water
iDC monitoring & control system
Cooling | Power

Why should you choose the iDCmini Family?

Full Protection

The iDCmini Family is an industrial grade product. It can be protected from dust ingresses and splashed water from any direction. There is also complete protection against contact and water ingresses. Hence, it is operational in many different types of environments, even in harsh conditions. With this protection, you can rest assured that your infrastructure will remain unharmed.

High Reliability & Availability

The iDCmini Family requires minimal site work because of its all-in-one nature. It has been pre-fabricated, well tested and commissioned before delivery. This prevents complicated site workmanship that could cause problems in the future, such as leakages from a condensation or refrigerant pipe. Hot swap components are also available in selected devices, such as the battery or UPS system. For even more reliability, the systems can be configured to house components needed to be classed as a TIA 942, Rated 4 solution.

Cost Effectiveness

With features like minimized space requirement, low infrastructure requirement, no chilled water demand and a low PUE of around 1.5, it can reduce CAPEX and OPEX significantly.

Fast Deployment

Our iDCmini Family is extremely easy to set up and use. This can help you save a lot of time and effort in site preparation. All the components and equipment are pre-fabricated in our workshop and undergoes rigorous testing and commissioning procedures. The on-site installation time is only a few days and deployment is simple and straightforward.

Space Saving

If your company only has a small amount of space available for a datacenter, the iDCmini Family is the perfect solution. The iDCmini Family ranges from a wall-mounted closet to a floor standing rack, with four different sizes. With the iDCmini Family, you can make sure your infrastructure is safe without the need to devote a large amount of space to your datacenter.
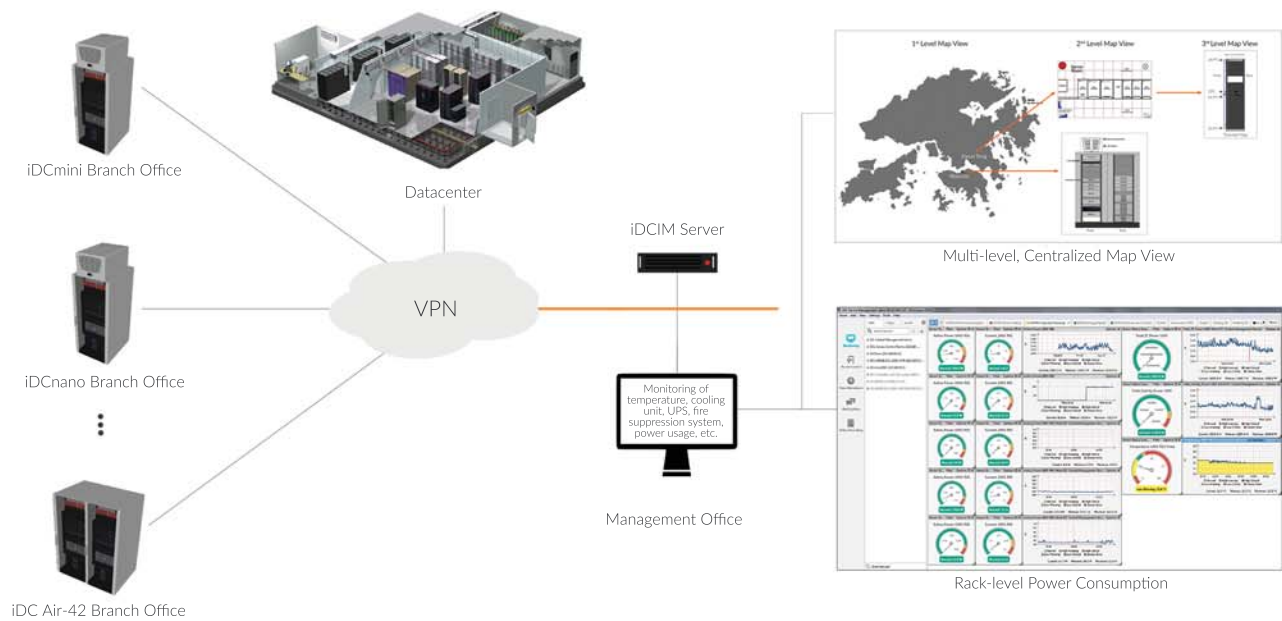
Easy Relocation

The iDCmini Family is highly mobile. The entire system can be moved without a hassle if your office needs to be relocated. All the equipment, monitors and systems are inside the rack, so you can move everything at the same time with no trouble in reinstallation. It is easily transportable, convenient and can make office relocation much easier.

iDC mini ®

www.iDCmini.com

Centralised Infrastructure Management

iDCmini Branch Office

Datacenter

iDCnano Branch Office

iDC Air-42 Branch Office

VPN

iDCIM Server

Monitoring of temperature, cooling unit, UPS, fire suppression system, power usage, etc.

Management Office

1st Level Map View   2nd Level Map View   3rd Level Map View

Multi-level, Centralized Map View

Rack-level Power Consumption

Professional Support Service

We understand how difficult and frustrating it can be when you have a technology emergency. In order to provide comprehensive quality services to our valued customers, we run a customer service center. Our well-trained customer service operators will offer the following services to take care of our customers and their technical needs:

• Support Hotline Service
• 8/5 or 24/7 Emergency Support Service
• Periodical Preventive Maintenance

iDCmini®

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iDCmini Duo Major Components

Rack

Nano-coating
8U side mounting kit as optional add-on
Waterproof and dustproof
Glass front and metal rear doors

Dual cooling unit

DX type design
Environmentally friendly coolant R134a
3kW cooling capacity (1.5kW x2)
Can operate at 55°C room temperature
No outdoor unit
No fresh water and condensate drain pipe is needed

Fire suppression

2U
Gas types: Novec 1230 (FM200 on request)
Supports up to 2 racks per module
Dual smoke detectors only alarm when both
detectors are triggered

UPS

6kVA, 3U (3kVA x2 for 2N, on request)
Supports both IT equipment and cooling system
Hot-swap feature with an external UPS bypass (0U)

Monitoring & control system

1U
Alerts by SNMP, email, voice call and SMS
Data logging for temperature, humidity, UPS power
usage, cooling unit tracking and fire suppression
module tracking information

Power distribution unit

Measures and monitors IT equipment loading

iDCmini Family Summary

	iDCmini Duo	iDCmini	iDCnano	iDC Air-42	iDC Air-15
Mounting capacity	46U(38+8U)/50U (42+8U)	46U(38+8U)/50U (42+8U)	38U/42U	42U	15U
Size (WxDxH) mm	600/800 x 1100 x 1800/2000	600/800 x 1100 x 1800/2000	600/800 x 1100 x 1800/2000	600/800 x 1100 x 2000	600 x 673 x 746
Rack type	Floor stand/Castor	Floor stand/Castor	Floor stand/Castor	Floor stand/Castor	Wall mount
Protection	Waterproof & dustproof	Waterproof & dustproof	Waterproof & dustproof	Waterproof & dustproof	Waterproof & dustproof
Monitoring & control system	iDC SPX+	iDC SPX+	iDC Controller Basic	iDC Controller Basic	iDC Controller Basic
Cooling unit	DX type	DX type	DX type	Air flow enhancer	Air flow enhancer
Cooling capacity	3kW (1.5kW x2)	3kW	1.5kW	3kW / 6kW / 8kW	1kW
UPS	6kVA/3kVA x2	6kVA	3kVA	3kVA / 6kVA / 10kVA	1kVA
Power distribution unit	iPDU	iPDU	iPDU	iPDU	Dumb PDU
Fire suppression agent	Novec 1230/FM200	Novec 1230/FM200	Novec 1230/FM200	Novec 1230/FM200	Aerosol
Available capacity (fire module counted)	38U/42U	38U/42U	32U/36U	36U	13U
Suggested cabling with switch capacity (70% full)	384	384	288	288	96
Maximum amount of server (2U)	13	13	5	13	0
VM (Virtual Server) capacity	80 - 200	80 - 200	30 - 50	80 - 400	NA