gCloudFlex Data Sheet

gCloudFlex OverView

As the amount of customers grows, traditional data centers are faced with the following challenges:

- Low energy efficiency
- High construction costs, long system construction cycles and investments to immovable assets
- IT facilities require large amounts of work in construction and design. (Cooling, Power supply, Environmental monitoring)
- Lack of flexibility, hard to relocate

GCCA's green IDC gCloudFlex provides a Fast and Flexible, High Performance data center that effectively covers all the above issues.

gCloudFlex has integrated Power Supply System, Environmental Monitoring, Cooling Systems, Cabinets, Fire Prevention, and Safety Measures in the infrastructure of the container style IDC (Internet Data Center) product :

Rapid deployment
3~ 6 months to complete the deployment

All-in-One Design
IT, Power, Cooling and Environment management integrated in the interior of the box. (Modular datacenter 2.0+)

High-Density and High-Scalability
Container is the basic modular of datacenter, supports flexible and scalable IDC. Container can be stacked-up to further reduce floor space per rack

Green Energy Use
PUE (Power Usage Efficiency) achieves 1.2. Through use of solar, wind and various other types of clean, green energy, the PUE can be reduced to less than 1

DC Power Supply ensures High Availability
DC Micro-Grid power system and redundant dual power inputs design to ensure high availability

Intelligent Management System
Container Management System manages resource according demand intelligently

These features of gCloudFlex can not only reduce production costs, but also reduce the operation costs, hereby becoming an effective way for building IDCs. gCloudFlex can be used by telecom operators, government, high-mobility businesses, the IT industry and small/medium enterprises.

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gCloudFlex Technical Specifications

gCloudFlex			
Dimensions	Type	20’ container	
	Length	6.096m	
	Width	2.44m	
	Height	2.90m	
Power	Container Input Voltage	220V/380V AC 100~400V DC/PV	220V/380V AC 100~400V DC/PV
	Power	30KW	50KW
	Cabinet Input Voltage	220V AC	220V AC
	IT DC Input	120V~135V DC	120V~135V DC 240V~270V DC
	Power / Rack	3KW	6KW
Cooling	Cooling technology	Air Cooling	Air Cooling
	Cooling Capacity	18KW	30KW
	Out door airconditioner	2	
	In door airconditioner	4	
	Fresh Air System	Yes	
	Free Cooling	Yes	
	Cold Hot Aisle isolation	Yes	
Rack	Type	Standard 19” rack	
	Quantity	5 IT rack, 2 power rack	
	Height	42U	
	IT Equipment space	31U per rack, total 155U	
	Compatible with other IT equipments	Yes	
Functions	Fire Extinguishing	Yes	
	Environment Control	Yes	
	Video Surveillance	Yes	
	Lighting System	LED	
	Backup time	2~5 hours	
	Access Control	Optional	
	CMS	Optional	
Environmental Requirements	External Temperature	–10~45° C	
	External Humidity	5~95%RH	
	Altitude	No Higher than 3000 m	

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All-in-One gCloudCube

gCloudCube Overview

At present, the traditional data centers are facing with the following challenges：

- Low energy efficiency and high electricity costs
- High construction costs, and serious waste on investment
- Need to lease room space from Operator
- Lack of flexibility, hard to expand or relocate in future

GCCA’ s gCloudCube provides you a green data center with high scalability, high efficiency, high performance and plug & play to effectively solve all problems in above.

gCloudCube is a rack based cloud IDC product, integrating power distribution, server, storage, networking, cabling and other equipment . The product has the following key features:

- All-in-One design, single cabinet can become a cloud computing data center
- Modular design, capable of rapid and flexible deployment
- Operational in general office environment
- Superior energy-saving feature and greatly reduce operating cost. The PUE (Power Usage Efficiency) index is less than 1.2 in normal operating conditions. The PUE falls below 1 in case of access to renewable energy

These features make gCloudCube product can not only reduce the construction costs, but also reduce operating costs, become an effective way of IDC building.

gCloudCube is not only the integration of these standard components. With more than a decade of experience of operating IDC operation experiences, GCCA system designers optimize the system from overall performance, stability,power consumption reduction aspects.

gCloudCube also has been perfectly integrated and tested with the current vitualization technology VMWare and Microsoft.

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gCloudCube Technical Specifications

gCloudCube

Model	gCloudCube
Configuration	8 servers + 30T Storage + Network devices + Energy Router + Battery Bank
Network Architecture	96 ports Gigabit(48 ports Smart Gigabit switch x2), 3 ports 10Gb(optional) support VLAN, port trunking, 8Gb trunk port
Management	Web and SNMP management
Power Supply System	
Battery	12V45AH x10, AGM
PV Input	Input Voltage: 200~400VDC, Maximum input power: 3kw, support smart charging system
AC Input	Maximum input power: 3kw, 90~270V, 50 or 60 HZ
DC Grid Input	120VDC + -15V
UPS	Built-in, zero switch time, approximate 2~5 hours on back-up power(depending on the load)
Energy Sharing	Through DC Micro Grid share power
Physical Parameters	
Dimensions	41U: 2015mm(H)x600mm(W)x1000mm(D) 36U: 1800mm(H)x600mm(W)x700mm(D)
Weight	250kg (include 5KWh battery bank)
Environmental Requirement	Temperature: 0~35 ℃; Humidity: 5~95% RH; Altitude: 0~2000 meters
Cabinet Cooling Mode	Fan
Power Consumption	Average: 1650W, Maximum: 3000W
Certification	CB,CCC, CE, cUL, TUV

Energy Router

Energy Router	Index
Maximum Power Output	3KW
AC Input	100~285VAC, 220VAC +-35V Power Factor : >0.98
Solar Energy Input	200~400VDC
MPPT Solar Input Range	150~390VDC
DC Micro-Grid Input	135VDC(Minimum 110 VDC, Maximum 300VDC)
Output Current	5~22A
Battery Voltage	120VDC
Charging Battery Voltage	135VDC
Conversion Efficiency	>93%
Communication Interface	RS232 or RS485
LCD Support	Yes
Energy Router Modes	AC, PV, Auto
Parallel Output Support	Yes
Redundancy Mode	N+1
DC Micro-Grid Support	Yes
Under/Over Voltage Input Protection	Yes, auto-disconnection and reconnection
Alarms	Yes
Setting Alarm Threshold Support	Yes
Smooth Start	Can be set from 5~160 seconds
Dimension	430mm(L)x230mm(W)x110mm(H)
Weight	<8Kg
Operating Temperature	-10~50℃
Storage Temperature	-20~70℃
Operating Humidity	5~95%, No Condensation
Standards	CCC. CE. CB. cUL

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