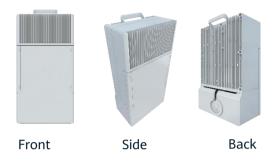
PowerCube 500 Integrated Video Site

PowerCube500-T873E



Introduction

Huawei PowerCube 500 integrated video site is applicable in various kinds of low power equipment, widely used in safe cities, highways, high-speed areas, campuses, and scenic spots. This solution uses integrated design to solve a series of problems such as transmission, power supply, and fast deployment of video sites. In addition, the solution uses intelligent management methods such as remote network management to greatly reduce the site failure rate and O&M investment, and improve the online rate of the entire video site.



PowerCube500-T873E

Feature

Simple

- Power supply & network integration design without internal connections
- Support solar input, free of grid introduction
- Natural heat dissipation, no damageable parts such as fans, and no routine maintenance

Flexible

- 12V DC, 24V AC, PoE, PoE+, PoE++ multi-mode power supply output
- Support solar/grid input, GPON/XGS-PON access, flexibly adapting to onsite fiber resources

Reliable

- IP55 dustproof and waterproof,
- -40°C~+55°C wide temperature operating

Intelligent

- eSight remote unified network management, power supply and network management integrated within same NMS.
- Supports online intelligent upgrade and remote one-click restart

Application Scenario

- Video surveillance site
- Low power consumption site



Overall System Indicators

Parameter Type		Specifications
Overall System Indicators	Dimensions	300 mm (W) × 150 mm (D) × 570mm (H)
	Weight	< 18 kg
	Heat Dissipation Mode	Natural heat dissipation
	Installation Mode	Installed on a pole or wall
	Pole Diameter Range	105 – 210mm
	Cable Outlet Mode	Routed from the bottom and routed out from the bottom
	Protection Level	IP55
Environmental Specifications	Ambient Temperature Range	-40 °C to +55 °C
	Storage Temperature Range	-40 °C to +70 °C
	Operating Humidity Range	5% - 95% (no condensation)
	Altitude	0 - 5000 m (1°C per 200 m temperature derating from 2000 to 5000 m)
	Salt Spray Prevention	Provides the salt spray prevention capability when the distance is greater than 500 m

Power Parameters

Parameter Type		Specifications
Mains input	Mains input mode	220 V AC single-phase
	Mains input voltage	85 – 290 V AC, rated: 220 V AC
	Input frequency	45 Hz – 66 Hz
	Maximum input current	4A (450W)
Solar input	Solar input voltage	36 – 120V DC
	MPPT tracing precision	≥ 98%
	Maximum solar input power	1400W
Output	Output voltage	2 x 12V DC (total power≤ 72 W)
		2 x 24V AC (total power≤ 100 W)
		PoE /PoE+ / PoE++(48V DC), total power ≤ 170 W)
	Rated output power	200W (12VDC+24VAC+6 x PoE, total power ≤ 200 W)

^{*} Working temperature range: -40 °C to +55 °C (without solar radiation) -40 °C to +45 °C (solar radiation: $1120W/m^2$)

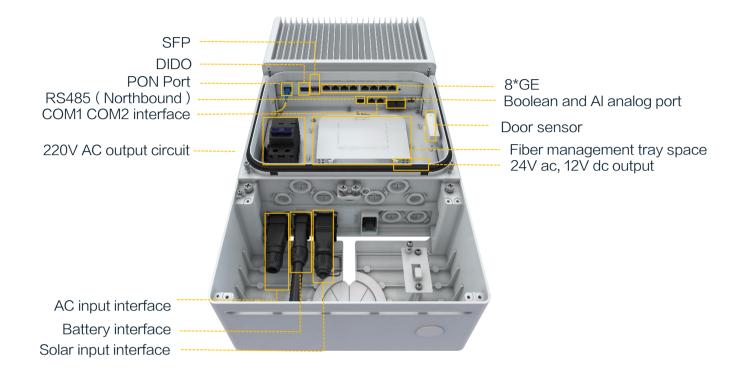
Network Parameters

Parameter Type		Specifications
Network Port	Type1	1*GPON (BOB)
	Type2	XGS-PON (SFP)
	Type3	2*GPON (1*BOB+1*SFP)
	Interface Type	SC/UPC
	Compliance Standards	ITU-T G.984.2, Class B+
	receiver sensitivity	-27dBm29dBm
GPON (Optional GPON optical module)	Overload optical power	-8dBm
modute)	transfer rate	Downstream rate: 2.488 Gbit/s; Upstream rate: 1.244 Gbit/s
		Type B single-homing
	Protection mode	Type B/C dual-homing (supported in Layer 2 forwarding mode)
	Interface Type	SC/UPC
	Compliance Standards	ITU-T G.9807, Class N1/N2
VCCDON (Outlean)	receiver sensitivity	-28dBm
XGSPON (Optional XGSPON optical module)	Overload optical power	-9dBm
modute)	transfer rate	Downlink rate: 9.953 Gbit/s Uplink rate: 9.953 Gbit/s
	Protection mode	Type B single-homing
		Type B dual-homing (supported in Layer 2 forwarding mode)
User port	Type&quantity	8GE (2*GE POE++ +2*GE +4*GE POE+) +1*DI+1*DO
	Interface Type	RJ45
	rate	10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s interface rate auto-sensing
GE port	Power supply function	PoE, PoE+, and PoE++
GE PUIT	Power supply	The maximum output power is 170 W. GE ports 1 and 2 support a maximum of 60 W (supporting PoE++). GE ports 3 and 4 do not support POE. GE ports 5 to 8 support a maximum of 30 W (supporting PoE+).
	Compliance Standards	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt
Surge protection specifications	GE	common mode 6 kV; differential mode 1.5 kV.
	AC power	common mode 6 kV; differential mode 6 kV

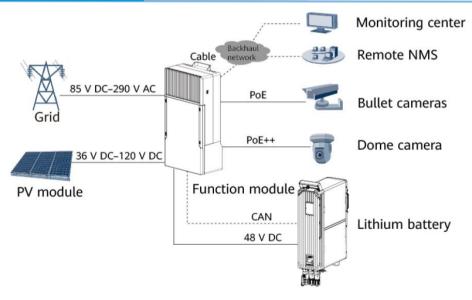
Function List

Parameter Type		Specifications
Automatic service provisioning	Authentication Mode	Authentication-free
	Protocol Support	XML/OMCI/TR069
Intelligent O&M	Management Mode	XML/Web UI
	Function	Rogue ONT detection and auto-regulation
	Emulation detection	Ring network detection/PPPoE simulation/DHCP simulation
	Routing capability	Default/Static/Policy/Service route
	VLAN	VLAN binding
	Protocol Features	ALG/UPnP/ARP
Layer 3 features		DDNS/DMZ/DNS/NAPT
		PPPoE/Static IP/DHCP
		Port mapping/Port trigger
		IPv6
	Access Control Protocol	802.1x
	Firewall Type	IPv6/IPv4 Firewall
Security	Filtering function	MAC address filtering/IP address filtering/URL filtering
Security	Anti-attack	Anti-DoS/ARP attack
	Access Control	Device access control
	Session capability	Maximum number of web sessions
	Protocol Type	IGMP v2/v3 snooping
Multicast	Dynamic capabilities	Dynamic controllable multicast
Mutticast	agent	IGMP proxy
	MLD	MLDv1/MLDv2 snooping
	Speed limit	Ethernet port rate limit
QoS	Priority	802.1p priority
	Traffic algorithm scheduling	SP/WRR/SP+WRR
Layer 2 management	DHCP	DHCP Option82
	Policy Information	PITP
	bridge protocol	BPDU transparent transmission
	Link layer	LLDP/LLDP-MED

Interface



Networking Diagram



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HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base Bantian Longgang Shenzhen 518129, P.R. China Tel: +86-755-28780808 www.huawei.com