



光语
GLORY

CloudEngine S12700E-G Series Intelligent Switch

Datasheet



CloudEngine S12700E-4-G



CloudEngine S12700E-8-G



CloudEngine S12700E-12-G

■ Product Overview

The CloudEngine S12700E-G series Intelligent switching routing machine is a new generation of flagship core switch for Wi-Fi 6 all-wireless era of high-end campus network. The machine can provide 288*100GE/40GE or 480*25GE or 576*10GE/GE ports at the maximum, and provide 4 slots, 8 slots and 12 slots. It is also equipped with CloudEngine S6730 and CloudEngine S5730 series switches, which can meet the network construction requirements of different networks or application scenarios.

The CloudEngine S12700E-G adopts a secure and reliable platform architecture in the software system, and adopts redundancy design for all key components in the hardware architecture to ensure the security, reliability and reliability of the core nodes of the campus network. In addition to industry-leading data exchange capabilities and massive terminal access capabilities, CloudEngine S12700-G also provides on-board AC, VxLAN, service accompanying, intelligent HQoS, iPCA, SVF and other innovative features. It is an ideal choice for building high-quality campus network core switches in the era of Wi-Fi 6, helping global customers with digital transformation.

- Highly reliable CLOS architecture: master control and switch separation, the current bandwidth of a single slot can reach 4.8Tbps, the future can be improved through the switch board upgrade, to meet the needs of smooth network evolution;
- Innovative cell switching mechanism: The cell switching is applied to the campus network for the first time. Based on dynamic load balancing, it realizes non-blocking and zero-packet loss data forwarding, ensuring the business experience of the whole network users;
- Leading on-board AC feature: The whole machine can manage a maximum of 10K AP, realizing the integrated management of wired network and wireless network, saving the cost of comprehensive network construction and reducing the complexity of campus network operation and maintenance;
- Leading service accompanying feature: refined policy management based on user + application, so that users can obtain consistent business policies and experiences at any place, any time and any access method.

■ ■ Technical Specification

Items	CloudEngine S12700E-4-G	CloudEngine S12700E-8-G	CloudEngine S12700E-12-G
Swap Capacity	387/1161 Tbps	645/1935 Tbps	1290/3870 Tbps
Packet Forwarding Rate	115200Mpps	230400Mpps	460800Mpps
Slot of the Main Control Board	2	2	2
Master Control Interface	1USB 2.0 port (support no more than 128GB capacityUSB flash drive); 1 ETH management port, 1 Console management port	1USB 2.0 port (support no more than 128GB capacity); 1 ETH Management port: One Console management port	1USB 2.0 port (support no more than 128GB capacity); 1 ETH 1 management port, 1 Console port
Switching Network Slot	2	4	4
Spu Slot	4	8	12
Fan Frame	2	4	5
System Power Supply	4	6	6
Cache Capacity	Supports a maximum of 200ms data cache per port	Supports a maximum of 200ms data cache per port	Supports a maximum of 200ms data cache per port
Redundant Design	Main control, switching network board, power supply, fan	Main control, switching board, power supply, fan	Main control, switching board, power supply, fan
Virtualization	Support CSS service port clustering	CSS service port cluster is supported	CSS service port cluster is supported
Dimensions (W × D × H)	442mm × 517.4mm × 441.7mm, 10U	442mm × 517.4mm × 663.95mm, 15U	442mm × 517.4mm × 841.75mm, 19U
Maximum Power Consumption of the Whole Machine	3344W	6950W	8981W
Operating Temperature	-60m to +1800m: -5°C to 45°C 1800m to 4000m: The maximum operating temperature is reduced by 1°C for every 220m increase in altitude		
Relative Humidity	5% to 95%RH (non-condensation)		
Heat Dissipation Method	Air in the left side and front, air out the rear side; Exhaust heat dissipation, fan automatic speed regulation		

■ ■ Frame Switch Model

Model	CloudEngine S16700-G New Generation Flagship Core Switch
S16700-8-G	S16700-8-G AC combination configuration (including AC/HVDC final assembly chassis *1, MPUA main control board *2, SFUG switch board *4, 3000 W AC & HVDC power module *4, fan box *3)
S16700-4-G	S16700-4-G AC combination configuration (including AC/HVDC final assembly chassis *1, MPUA main control board *2, SFUA switch board *3, 3000 W AC & HVDC power module *2, fan box *3)
Model	CloudEngine S12700E-G Industry-leading performance campus core switch
S12700E-4-G	S12700E-4-G 10-Gigabit board configuration (including assembly chassis *1, MPUE Main control board *1, SFUE Switching network *1, 48x10G optical (X6S, SFP+)*1, 3000W AC power supply *1)
S12700E-8-G	S12700E-8-G 10-Gigabit board configuration (including assembly chassis *1, MPUE main control board *1, SFUE Switching network *1, 48x10G optical (X6S, SFP+)*2, 3000W AC power supply *1)
S12700E-12-G	S12700E-12-G final assembly chassis (main control processing unit EC *2, Switching network unit M(X1)*2, 3000W AC PSU (black)*2)
Model	CloudEngine S8700-G New Generation Subrack Aggregation/Access Switch
S8700-4-G	S8700-4-G Main control processing unit D, supporting 2*10G+24*GE, or 8*10G service ports (SFP/SFP+)
S8700-6-G	S8700-6-G Basic engine configuration (including integrated chassis *1, SRUEX1C0 main control board *2)
S8700-10-G	S8700-10-G Basic engine combination configuration (including integrated assembly chassis *1, SRUFX1C0 main control board *2)
Model	CloudEngine S7700-G Intelligent Routing Switch
S7703-G	S7703-G Final assembly chassis (Main control processing unit *2, 3000W AC PSU (black)*2)
S7706-G	S7706-G Enhanced engine AC combination configuration (includes integrated non-POE final chassis, SRUHD main control board *2, 800W AC power supply *2)
S7712-G	S7712-G final assembly chassis (main control processing unit H(X1)*2, 3000W AC PSU (black)*2)



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