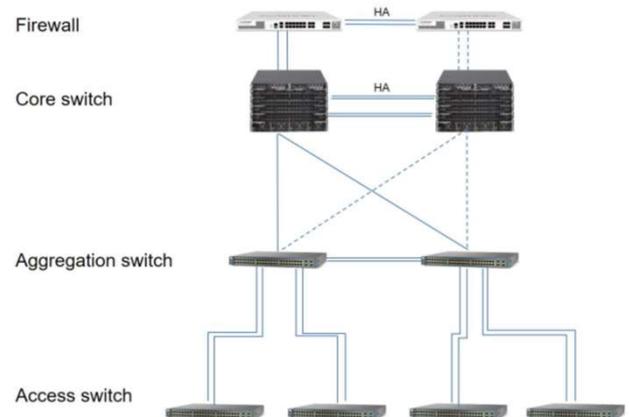# Campus Multi-gigabit Access Ethernet Switch
DE-B30GE6X1

Product Overview

The DEB30GE6X1 is a premium Campus Multi-gigabit PoE++ (IEEE 802.3bt) Access 1RU Ethernet Switch, which has 16-port 10/100M/1000M RJ-45 + 8-port 2.5GE RJ-45 + 6-port 10GE Uplink/Stacking provide up to 96 Gbps bandwidth configurable to multi-rate 10M/100M/100M/1G/10G. This switch supports high-density enterprise network access, remote office, distributed enterprise, and retail store applications with 5G/IoT/AI technologies. DE-B30GE6X1 is a high performance and open source community supported Ethernet switches hardware platform, which is a DENT (Disaggregated Enterprise NeTwork) complied Switch. PoE+ and PoE++ can bring high power PoE up to 60W in modern world because there are many different high-usage applications, such as IP Camera/CCTV or Wireless Access Point.

- 96 Gbps full-duplex switching capacity
- 16 x 10/100/1000M RJ-45
- 8 x 2.5GbE RJ-45
- 6 x 10GbE SFP+
- Automatic address learning support packet forwarding table up to 32K MAC addresses
- System LED indication
- Power over Ethernet up to IEEE 802.3bt/at, budget up to 60 watts (Type 3/Class 6) for one port
- Standard 1RU chassis height, 19" rack mountable

Preliminary

Model	DE-B30GE6X1
Chipset	
CPU	Embedded ARM v8.2 CA55 CPU (Dual Core) 1.4GHz
NPU	Marvell Alleycat 5X 98DX3520
Memory	DDR4 4GB (w/ ECC)
Storage	EMMC 32GB
Interface	
Ethernet Ports	16x GbE RJ45 and 8x 2.5GbE RJ45 24x PoE port supporting IEEE 802.3at PoE+ and IEEE 802.3bt PoE++ (16 port 802.3 at PoE+, 8 port 802.3 bt PoE++)
USB Ports	1x USB type-A
Console Port	1x RJ-45
Management OOB Port	1x RJ-45
Performance	
Switching capacity	96Gbps
Packet Buffer Memory	3MB
Jumbo Frame support	9.6K
MAC Address	32K entries
PoE	
PoE Port	IEEE 802.3at (p1~16) / 802.3bt (p17~24)
Idle Power	54.4W@220Vac/60Hz 54.6W@220Vac/50Hz 54.0W@110Vac/60Hz 54.2W@110Vac/50Hz
PoE Budget (per Switch)	700W by default PSU, POE Budget 480W 700W+1050W redundant Hot-swappable PSU, POE Budget 960W
Power & Fan	
Power Supply	1+1 Redundant, Hot-swappable 1050W
Power Input Voltage	110 to 220 VAC
System Power	100W
Power Consumption (Full Load: In-traffic + 802.3at class 4 + 802.3bt class 8)	980.7W@220Vac/60Hz 980.6W@220Vac/50Hz 1080.7W@110Vac/60Hz 1080.6W@110Vac/50Hz
Fan	3 Fixed Fan
Environmental Specifications	
Operating temperature	0 to 45℃
Storage temperature:	-25 to 70℃,
Humidity	Operating relative humidity: 5%~90% RH no-condensing Storage humidity: 5%~95% RH no-condensing
Mechanical Specification	
Chassis Dimension	438.5x410x43mm (Width x Depth x Height)