

48-PORT POE SWITCH + 4 SFP PORTS (1 unit)

Item	Requirement	Description	Compliance
1	Network Interface	Proposed switch must have (48) 10/100/1000 Mbps RJ45 Ethernet Ports (4) 1/10 Gbps SFP+ Ethernet Ports	Comply
2	Management Interface	Ethernet In-Band	Comply
3	Non-Blocking Throughput	Must at least provide 88 Gbps	Comply
4	Switching Capacity	Must at least provide 176 Gbps	Comply
5	Forwarding Rate	Must at least provide 130.944 Mbps	Comply
6	Maximum Power Consumption	The network switch must have a maximum power of 60W excluding PoE output.	Comply
7	PoE Interfaces	Must have 48 PoE ports which supports PoE+ IEEE 802.3af/at and 60W PoE++ IEEE 802.3af/at/bt	Comply
8	Max. PoE Wattage	At least 32 W per port - 802.3at 64 W per port - 802.3bt	Comply
9	Voltage Range 802.3at/bt Mode	Must have at least 50-57V	Comply
10	Voltage Range 802.3af Mode	Must have at least 44-57V	Comply
11	Power Supply	AC/DC, Internal, 660W	Comply
12	Operating Temperature	-5 to 40° C (23 to 104° F)	Comply
13	Operating Humidity	10 to 90% Noncondensing	Comply
14	ESD/EMP Protection	Air: ±16 kV, Contact: ±12 kV	Comply
15	Mounting	Rackmount	Comply
16	Shocks and vibration	Must conform with ETSI300-019-1.4 Standard	Comply
17	Certifications	CE, FCC, IC	Comply
18	Software Management	The switch must have a wireless network management software solution that allows to manage multiple wireless networks using a web browser.	Comply
19	Brand/Standard	The technology or brand must either be American or European for a more Global Standard compliance.	Comply
20	Local Support	The brand must have local 2 nd level support via its distributor that is compliant with global standard like ISO or Duns and Bradstreet to maintain a quality-of-service (QOS) delivery.	Comply

SFP TRANSCEIVER (80 units)

Item	Requirement	Description	Compliance
1	Supported Media	Single-mode Fiber	Comply
2	Connector Type	(2) LC	Comply
3	TX Wavelength	1310 nm	Comply
4	RX Wavelength	1310 nm	Comply
5	Data Rate	10 Gbps SFP+	Comply
6	Max. Power Consumption	1W	Comply
7	Cable Distance	10 km	Comply
8	Operating Temperature	0 to 70° C (32 to 158° F)	Comply

God