WiFi Access points

Compatibility with WiFi standards:	IEEE 802.11a/b/g , IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax
WiFi operating mode:	Support for access point / bridge mode, router mode and repeater mode
MIMO technology with beamforming:	2.4GHz, 4x4, MU-MIMO and 5GHz, 4x4, MU-MIMO
Supported Radio Technologies:	802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA) and 802.11ac/a/g/n: Orthogonal Frequency Division Multiple (OFDM) Dynamic frequency/channel selection
Maximum transmit power:	2.4 GHz band EIRP≤ 20 dBm, 5GHz band EIRP≤ 30 dBm, internal antennas
Supported networking:	Should support 802.1Q VLANs, DHCP server capability, Static IP for device management
WiFi coverage (radius in meters):	minimal 35 meters, unobstructed line-of-sight
Support for simultaneous users:	at least 100;
Installation:	Wall-Mountable/Pole-Mountable
Power:	IEEE 802.3af (PoE), IEEE 802.3at (PoE+) or IEEE 802.3bt (PoE++)
Connectivity (minimal):	GbE RJ45 port
Operating environment:	Temperature range: -30°C ~ +65°C, Humidity (non-condensing): 90% or less
System management and monitoring:	SNMP support
User authentication:	Support for captive portal for custom branding and messages. Option to limit access by time, data usage, or bandwidth. Compatible with iOS, Android, Windows, and macOS devices.
IP Rating	IP68
Surge protection	4KV
Compliance:	CE Mark (declaration of conformity) and RoHS compliant

Outdoor rack cabinets

Cabinet size and dmensions:	Should accommodate equipment 6 RU, Width: 600mm Depth: 450mm
Environmental protection:	IP65
Material:	Steel, 1.5mm or more, with earthing
Coating:	Powder coated, light grey colour
Cooling:	2 fans
Lock type:	Padlock

Uninteruptable power source

UPS power output:	At least 100w

UPS type:	Online, single phase
Form factor:	Rack mountable 2U max
Runtime on battery (at 100w load):	Minimum 4 hours
Management:	Management and status monitoring ethernet port
Input power ranges:	120-300 VAC, 40Hz~70Hz
Operating environment:	Temperature range: 0°C ~ +40°C, Humidity (non-condensing): 90% or less

Fiber optical ADSS drop cable

Fiber Core:	1
Fiber standard:	G.652D
Outer Jacket Material:	LSZH
Steel wires OD.:	FRP strength rod

Fiber optical all dielectric self-supporting cable

Fiber Core:	24
Fiber standard:	G.652D
Outer Jacket Material:	LSZH
Cable Structure:	Multi Tube (6 or 4 Cores per Tube)
Type:	ADSS - Full dielectric, Self Supporting
Central Strength Member:	FRP 1.6mm diameter
Max allowable tension(N)	2000
Protection:	Aramid Yarns
Attenuation at 1310nm:	0.35db/km max after cabling
Attenuation at 1550nm:	0.21db/km max after cabling

Switch on the ISP side

Switching Capacity	Up to 52 Gbps
Forwarding Rate	Up to 38.7 Mpps
Number of Ports (minimum):	4 Gigabit Ethernet ports and 3 10-Gigabit SFP+ ports (L3 capability on all ports)
VLAN Support	Supports IEEE 802.1Q VLAN tagging
Routing Protocols	Supports static routing, OSPF

Layer 3 Features	Supports IPv4 and IPv6 routing, multicast routing (IGMP)
Quality of Service (QoS)	Supports traffic prioritization, bandwidth management, up to 8 queues per port
Security Features	Supports ACLs, 802.1X authentication, DHCP snooping, IP source guard
Redundancy and Resiliency	Supports STP (IEEE 802.1D, 802.1w, 802.1s)
Management	CLI, SNMP (v1, v2c, v3), RMON, syslog
Power Supply	Internal power supply
Dimensions	Standard 19-inch rack-mountable 1RU
Operating Temperature	0°C to 40°C
Humidity	Operating humidity 10% to 95% non-condensing
Warranty	5 year
Compliance	RoHS, FCC Class A, CE, UL