Information Technology-Wireless Networking - WiFi Report 25-26

Pick the company name corresponding to your name in the table below and select one of their Wireless Access Point / Router products from their web site and find and list the below features of that particular product (sample report is shown below).

- Manufacturer
- Model Number
- Wireless Standards
- Wireless Features
- WiFi Range
- Number of Ethernet Ports
- WiFi Speed
- Routing
- Operation Mode
- Short Description

No	Student Name	Supplier	No	Student Name	Supplier
1	Adam Muhammed Saber	ACTIONTEC	28	Muhammed Kakakhan Ahmed	MIKROTIK
2	Ahmed Ashti Ahmed	ABOCOM SYSTEMS	29	Mustafa Salim Sharif	MSI
3	Ahmed Mahdi Ahmed	ALFA	30	Najla Salah Fatah	NETGEAR
4	Ahmed Muayad Maghdid	ALLIEDTELESIS	31	Noor Muhammedamin Osman	NETIS
5	Ali DIshad Rostam	AMPEDWIRELESS	32	Rawan Bestun Kareem	PLANET
6	Ali Muhammed Ahmed	ASROCK	33	Rozhin Muhammad Mustafa	PROXIM WIRELESS
7	Anas Ahmed Ilhamdarweesh	ASUS	34	Sahand Fahmi Mustafa	SAGEMCOM
8	Arman Beshr Ahmed	AVM	35	Sahar Fakher Muhammed	SECURIFI
9	Avan Jamil Kakil	BELKIN	36	Sarwat Shukri Hamo	SENAO
10	Awara Hemn Hasan	BUFFALO	37	Shad Abdullah Hussein	SHENZHEN GONGJIN
11	Aya Halmat Zyad	CAMBIUMNETWORKS	38	Shanaz Khalil Kareem Majeed	SILEX TECHNOLOGY
12	Bahjat Dedar Kakamin	D-LINK	39	Sivar Edres Hamad	SITECOM
13	Bayar Bashdar Majid Khudhir	DRAYTEK	40	Staish Farhan Asaad	SMC
14	Blnd Jamel Sabri	EDIMAX	41	Yaran Dlman Ebrahim	SYNOLOGY
15	Chalak Barzan Hadi Mawlood	EDIMAX	42	Zhewar Ali Mustafa	TELTONIKA
16	Chenar Farhad Othman	ENGENIUS	43	Aram Farhad	TENDA
17	Eleka Ardalan Muhammed	EXTREME NETWORKS	44	Huda Baker	TOTOLINK
18	Fahid Ihsan Sdeeq	FOUR FAITH			
19	Farshad Fathi Hamad	GEMTEK			
20	Fenik Hussin Jumaa	GENEXIS			
21	Hazhir Mamand Ahmed Dot	HUAWEI			
22	Kaiwan Kakl Hassan	HOOTOO			
23	Kale Qubad Aziz	JCG			
24	Kaywan Faruq Kamal	LB-LINK			
25	Mahmood Emad Mohammed	LEOXSYS			
26	Mawa Sarkawt Muhtasm	LINKSYS			
27	Mazen Mowaffak Al Seh	MEDIALINK			

WIRELESS ROUTER/ACCESS POINT TECHNICAL SPECIFICATIONS REPORT

Ubiquiti UniFi 6 Pro (U6-Pro)

Specification	Details
Manufacturer	Ubiquiti Networks
Model Number	U6-Pro
Wireless Standards	IEEE 802.11a/b/g/n/ac/ax (WiFi 6)
Wireless Features	• 4x4 MU-MIMO (5 GHz) • 2x2 MU-MIMO (2.4 GHz) • OFDMA Technology • 160 MHz Channel Width • Beamforming • Guest Network Isolation • WPA3 Security
WiFi Range	140 m² (1,500 ft²) coverage area • 2.4 GHz: 4 dBi antenna gain • 5 GHz: 6 dBi antenna gain
Number of Ethernet Ports	1 x Gigabit Ethernet (10/100/1000 Mbps) RJ45 Port
WiFi Speed	Aggregate: Up to 5.3 Gbps • 5 GHz: 4.8 Gbps (4x4, 160 MHz) • 2.4 GHz: 573.5 Mbps (2x2, 40 MHz)
Routing	Managed via UniFi Network Controller • Layer 2/3 Network Management • VLAN Support • Advanced QoS
Operation Mode	• Access Point Mode (Primary) • Mesh Point Mode • Managed through UniFi Controller

Short Description

The Ubiquiti UniFi 6 Pro (U6-Pro) is a high-performance, dual-band WiFi 6 (802.11ax) access point designed for enterprise and high-density residential deployments. With its advanced 4x4 MIMO technology on the 5 GHz band and 2x2 MIMO on the 2.4 GHz band, it delivers an impressive aggregate throughput of up to 5.3 Gbps,

making it ideal for bandwidth-intensive applications such as 4K video streaming, video conferencing, and cloud-based services.

The U6-Pro supports over 300 concurrent client connections while maintaining reliable performance across the entire network. Its compact, ceiling-mountable design (Ø197 x 35 mm) features an IP54 weatherproof rating, allowing for flexible indoor installation. The device is powered via PoE+ (802.3at) with a maximum power consumption of 13W, simplifying deployment in environments where power outlets are limited.

Managed through the intuitive UniFi Network application, the U6-Pro offers centralized configuration, monitoring, and management capabilities. It supports advanced features including guest network isolation, VLAN tagging, quality of service (QoS), and WPA3 security encryption. The access point can operate in multiple modes including standalone AP, mesh point, and can be integrated into larger UniFi network ecosystems for seamless whole-building coverage.