

SWITCH COMPETITIVE COMPARISON

ALTA LABS VS ARUBA, GRANDSTREAM, & UBIQUITI



Manufacturer	Alta Labs	Aruba	Grandstream	Ubiquiti	Ubiquiti
Model	S24-POE	JL813A	GWN7803P	USW-24-POE	USW-Pro-24-POE
MSRP	\$455	\$500	\$399	\$379	\$699

Mechanical					
Dimensions (mm)	44 x 254 x 441.5	253 x 443 x 44	440 x 200 x 44	442 x 200 x 44	442 x 285 x 44
Weight	3.6 kg	3.79 kg	3.3 kg	3.1 kg	4.4 kg

Ports					
Interface Ports	(24) 10/100/1000	(24) 10/100/1000	(24) 10/100/1000	(24) 10/100/1000	(24) 10/100/1000
SFP/SFP+	(2) SFP+	(2) SFP	(2) SFP	(2) SFP	(2) SFP+
Switching Capacity	88 Gbps	52 Gbps	56 Gbps	52 Gbps	88 Gbps
Non-Blocking Throughput	44 Gbps	Unavailable	28 Gbps	26 Gbps	44 Gbps
Fowarding Rate	65.6 Mpps	38.68 Mpps	41.66 Mpps	38.69 Mpps	65.472 Mpps
PoE Budget	240 W	195 W	360 W	95 W	400 W
PoE Supply	30 W per port	30 W per port	30 W per port	30 W per port	30 W per port 60 W per port
Per Port PoE	(16) 802.3at PoE+	(12) 802.3at PoE+	(24) 802.3at PoE+	(16) 802.3at PoE+	(16) 802.3at PoE+(8) 60W 802.3af PoE++
Non-PoE Ports	10	12	2	10	2

Hardware					
Packet Buffer	12 Mbit	1.5 Mbit	4.1 Mbit	1 Mbit	12 Mbit
Mac Table Size	16 K	16 K	Unknown	16 K	16 K
Energy Efficient Ethernet	Yes	Yes	Unknown	Yes	Yes
Bluetooth	BLE	None	None	None	None

Power					
Supported Input Voltage	110V/220V	110V/220V	110V/220V	110V/220V	110V/220V
Max Power Consumption w/o PoE	53 W Idle: 15W	42.2 W Idle: 15W	40 W	25 W	50 W
Max Power Consumption Full PoE	293 W	237.2 W	400 W	120 W	450 W
RJ45 Port Surge Protection	12kV for ESD - contact 25kV for ESD - air	Unavailable	Unavailable	12kV for ESD - contact 16kV for ESD - air	12kV for ESD - contact 16kV for ESD - air

Environmental					
Mounting	Rack Mount (RackStuds Duo Included), Wallmount	Rack Mount, Wallmount	Rack Mount, Wallmount	Rack Mount, Wallmount	Rack Mount, Wallmount
Operating Temperature	-5 to 50° C	0 to 40° C	0 to 45° C	-5 to 40° C	-5 to 40° C
IP Rating	None	None	None	None	None
EMI Rating	EMI Class-A with 3dB margin	Unavailable	Unavailable	Unavailable	Unavailable
Cooling Fan	Yes	Yes	Yes	Yes	Yes
Certifications	CE, FCC, IC	Unavailable	CE, FCC RCM, IC	CE, FCC, IC	CE, FCC, IC

Features					
MSTP	✓	✓	✓		
Ingress Rate Limiting	✓	✓	✓		