ROUTE 10 | DATASHEET

ALTA LABS

ROUTE 10

10 GBPS ROUTER

HARDWARE FEATURES

- Four 2.5 Gbps RJ45 Ports, 2 with PoE+
- Two 10 Gbps SFP+ Ports
- Quad-Core Qualcomm Network Accelerator
- Sleek, Compact Form Factor
- Single Power Supply
- Optional Rack Mount Accessory Available

SOFTWARE FEATURES

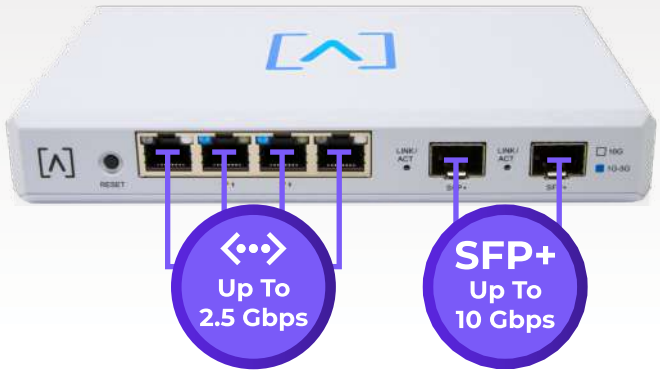
- Static IP, DHCP and PPPoE WAN Support
- VLAN and QoS Tagging on WAN Support
- Multi-WAN
- Traffic Shaping for Ultra-Low Latency, using CAKE
- DPI
- Static Routes
- IPsec Site to Site and Mobile Client
- Multiple VLAN and Subnet Support
- Alta Networks Mobile App Support
- DNS Repeater
- Dynamic DNS Client
- Firewall Configuration
- Wireguard
- IDS/IPS
- NAT Configuration (Source and Destination, Port forwarding)
- UPnP Support
- mDNS Forwarding
- Real-time Statistics Reporting
- RADIUS Server (for IPsec VPN)
- IGMP Snooping
- L2TP+IPSec Servers
- LLDP
- IPv6 Support
- IKEv2 Remote Access
- Tailscale Support
- OpenVPN
- NAT Schedule

ROUTE 10

Alta Labs is thrilled to announce the release of our groundbreaking high-performance 10 Gbps Router. Disruptively priced, it is the only 10 Gbps router in the market at this retail price point. Route10 completes the Alta Labs ecosystem, making it possible to build your entire network with Alta Labs products.

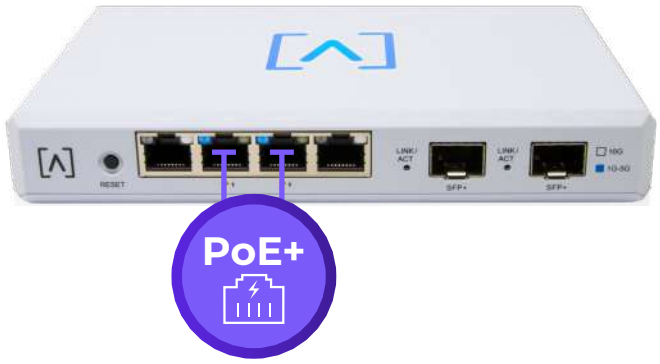
High Performance Connectivity

Designed for maximum performance, Route10 includes four autosensing Ethernet ports that support up to 2.5 Gbps Ethernet connections (10/100/1000/2500 Mbps). Route10 also provides two SFP+ ports for high-capacity fiber or copper connections of 1 Gbps, 2.5 Gbps, 5 Gbps, or 10 Gbps.



Power Over Ethernet

Route10 features PoE+ connectivity on ports 2 & 3. The router supports the 802.3at PoE+ standard and is backwards compatible with the 802.3af PoE standard. Power your Alta Labs Access Points and other devices that support 802.3at or 802.3af standards.



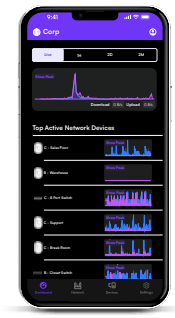
Quad-Core Qualcomm Network Accelerator

Bluetooth Setup

Bluetooth functionality is built into the Alta Labs Route10 router allowing for seamless setup using the Alta Networks mobile app.

Mobile App Support

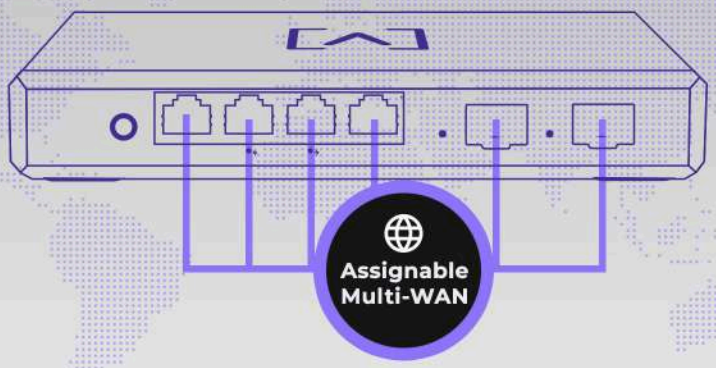
Monitor and manage your networks from the convenience of your mobile device. The management interface is easily accessible via mobile app or web browser. Sign up for an Alta Labs account using just your name, email, and password or sign in using your Google or Apple account.



Download

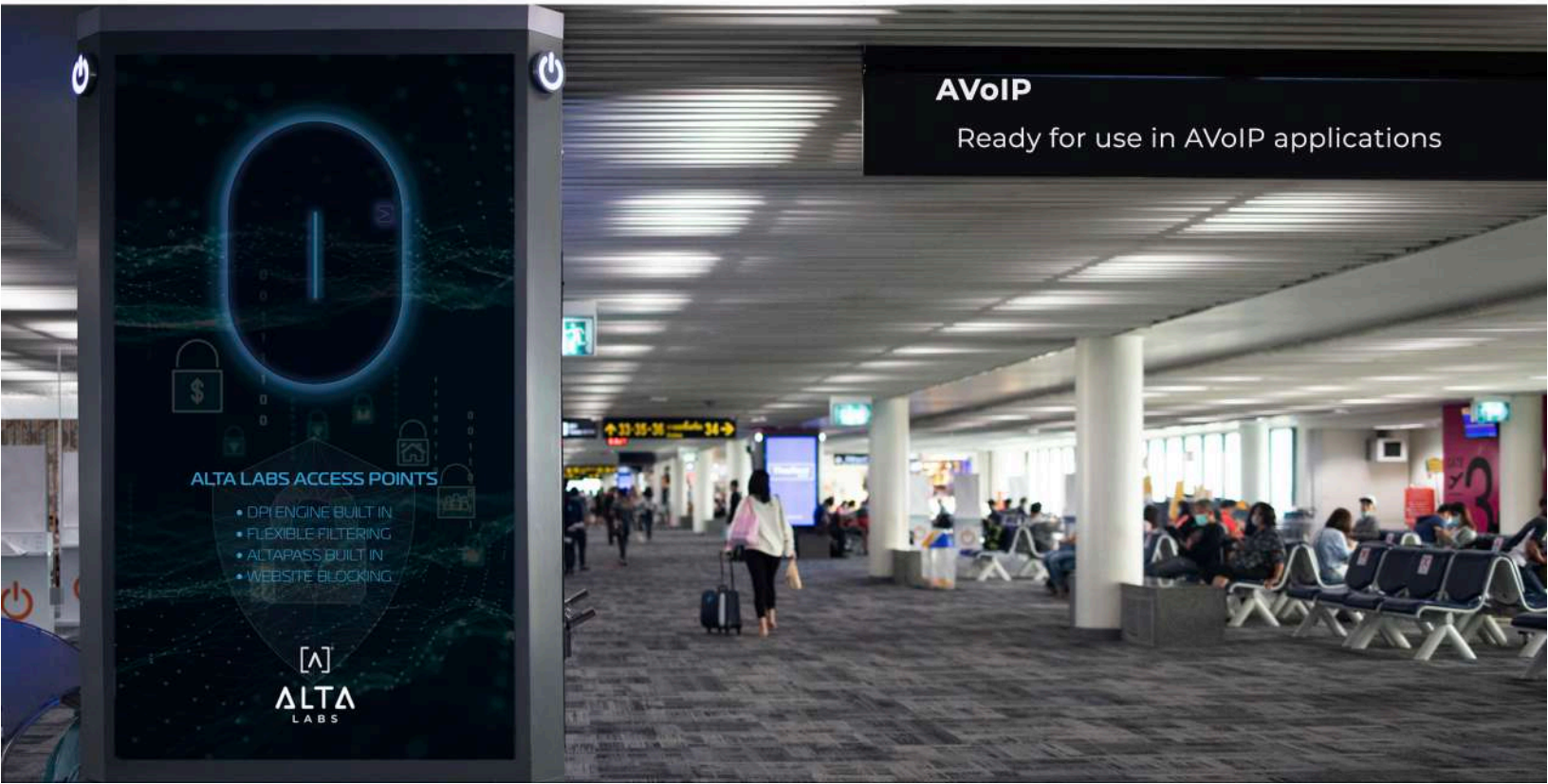
Assignable Multi-WAN

- Ethernet and SFP+
- Assignable Multi-WAN
- All Ports Can Be Configured



Native VPN Support

- Home network access worldwide
- Stream subscriptions as if home



SPECIFICATIONS

Mechanical	
Dimensions	180 x 110 x 29.8 mm (7.09 x 4.33 x 1.17")
Weight	0.46 kg (1.01 lbs)
Enclosure Material	Top cover: polycarbonate Bottom cover: milled aluminum
Material Finish	Matte
Color	White
Mount Material	Injection Molded Plastic

Ports	
Network Interface	Ethernet, Bluetooth
Management Interface	(4) Autosensing 2500/1000/100/10 Mbps RJ45 Ports, (2) 10 Gbps/1.25 Gbps SFP+ Ports
Data Rate	37.5 Million Packets per second

LEDs	
PoE	Amber
RJ45	Amber (Left LED): 10/100 Mbps Blue (Left LED): 1 Gbps White (Right LED): 2.5 Gbps
SFP+	Blue: < 10 Gbps White: 10 Gbps
Status	RGB/Multi-Color

Hardware	
Processor	Quad-core Qualcomm 2.2 GHz
Button	Reset/Factory Reset

Power	
Power Supply	Universal AC, 100 - 240VAC 50-60Hz External
Maximum Input Power Consumption	70W
Idle Power Consumption	5W with no connections, 9W with all ports connected
POE Budget	40W
Per-Port PoE	(2) 802.3at POE+, PoE+ (54VDC, 0.6A Max)
PoE Ports	2
Bluetooth Version	BLE
Total Bluetooth Power	5 dBm EIRP
Bluetooth Gain	3 dBi
MAC Table Size	4k

Environmental	
Mounting	Locking Wallmount, Desktop
Operating Temperature	-5 to 50° C (23 to 122° F) With (1) 2W SFP+ Module: 45° C (113° F) With (2) 2W SFP+ Modules: 40° C (104° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC
RJ45 Port Surge Protection	12kV for ESD - Contact, 25kV for ESD - Air

Software	
VLAN	802.1Q
Easily Scale from Home to SMB to Stadium	Yes
Seamless Per-Client Settings	Yes
VPN Server	Yes, Multiple, Hardware-Accelerated
Actual Total Throughput	25 Gbps Combined Upload/Download
RADIUS Authentication	Yes
Deep-Packet Inspection	Yes
Intrusion Detection and Prevention Systems	Yes, at 10 Gbps
WAN Failover and Load-Balancing	Yes

Optional Rack Mount Accessory

The Alta Labs **RK-RSC** Rack Mount Accessory is now available. The RK-RSC allows you to mount your Route10 in a single 1U rack space. Mount a single device or two. The rack supports Route10, S8-POE, and Control in any combination. Click image below for datasheet.

ALTA LABS

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All specifications are subject to change without notice.
Alta Labs products are sold with a limited warranty: alta.inc/warranty
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