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

### CURRENT 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
- Multiple VLAN and Subnet Support
- Alta Networks Mobile App Support
- DNS Repeater
- 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

### POST-LAUNCH FEATURES (SOON)

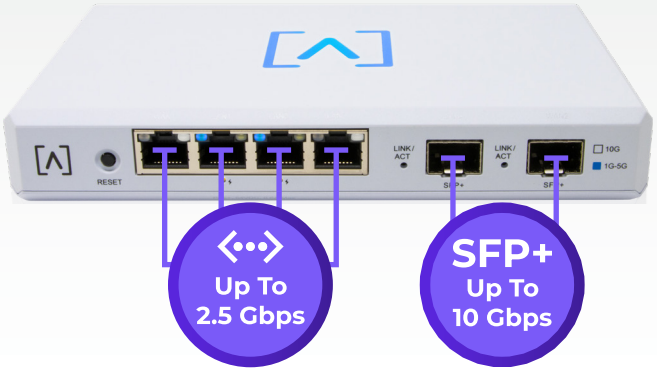
- Optional Rack Mount Accessory
- IPsec Site to Site
- L2TP+IPsec Client
- OpenVPN
- Dynamic DNS Client
- Static Routes
- Advanced features: Match Source MAC, mark, DSCP
- NAT Schedule
- DPI

# 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.

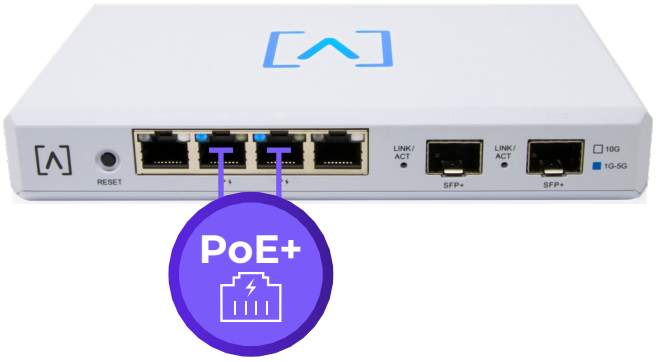
## High Performance Connectivity

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.

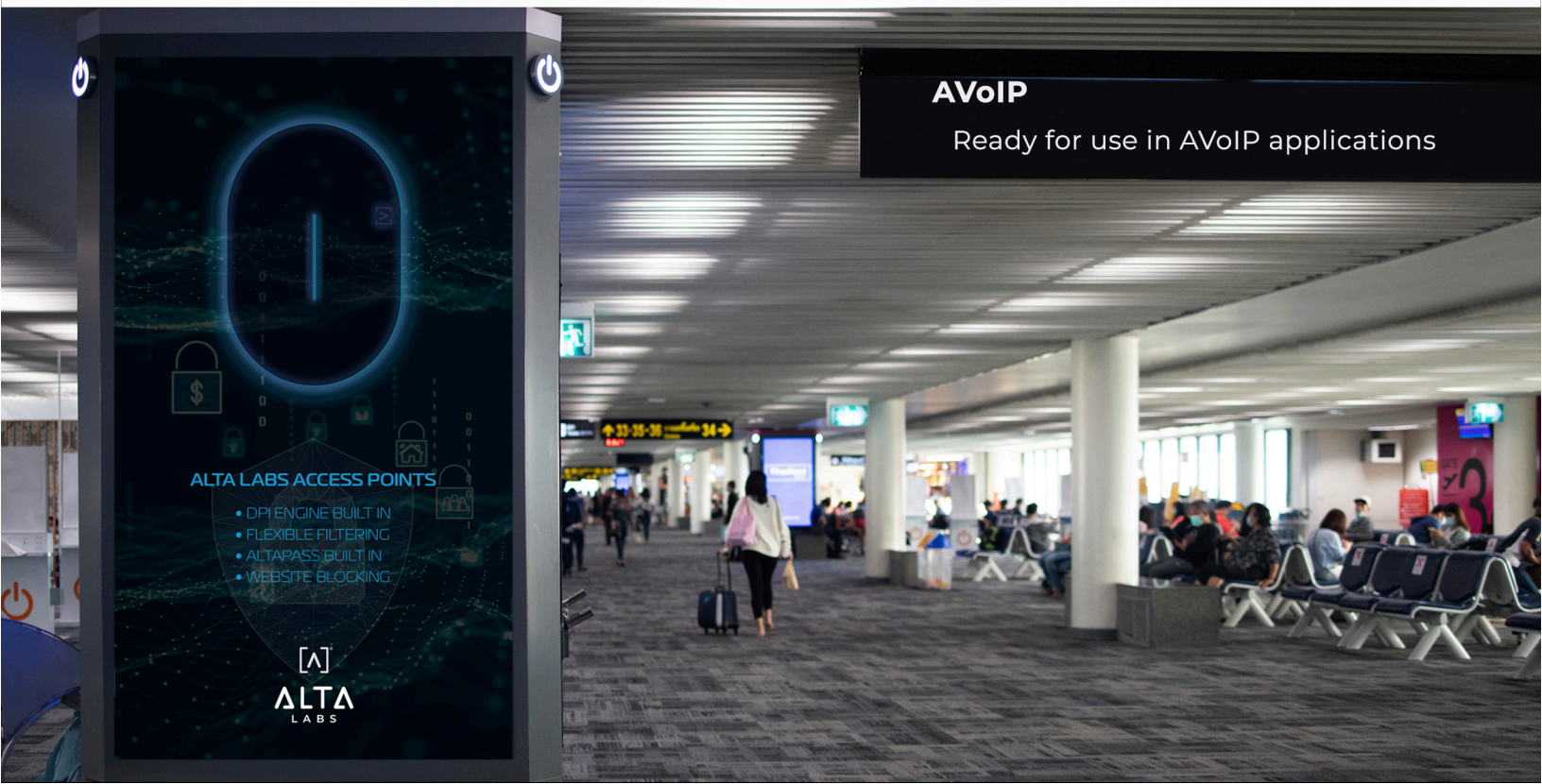
Download

## 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




## AVoIP

Ready for use in AVoIP applications

## 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<br>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<br>Blue (Left LED): 1 Gbps<br>White (Right LED): 2.5 Gbps |
| SFP+ | Blue: < 10 Gbps<br>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,<br>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)<br>With (1) 2W SFP+ Module: 45° C (113° F)<br>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 |

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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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