Mako 4000 Series

Extend your network securely.

At a Glance

AP / Edge Router / Secure Zone Router

PCI DSS Certified

Up to four wireless SSIDs per band

Fully cloud managed with zero-touch Deployment

The Mako 4000 Series brings the PCI-certified, cloud-managed, high availability Mako System to a streamlined, cost-effective, smaller footprint that allows for application as a wireless access point (AP), edge router or secure zone router. Like all Mako devices, 4000 Series devices are fully managed via the Mako Central Management System (CMS). These smaller Mako devices are typically used to extend wireless range, to improve broadcast/reception positioning or to upgrade to the latest performance standards, and they are ideal for easily and securely connecting remote workers, IoT applications or retail locations to head offices, data centers or third-party services.

ACCESS POINT / SECURITY GATEWAY

Most Mako 4000 Series devices have both AP and security gateway modes requiring different licenses. AP mode is for users wanting to deploy Wi-Fi connectivity only, while security gateway mode allows the device to function as an edge router or zone router. The Mako 4550 is exclusively an AP and is rated IP67 for deployment to outdoor environments.

PCI DSS CERTIFIED

The entire Mako System, including the Mako CMS and all Mako devices, is end-to-end PCI DSS certified, providing peace of mind and security for card-present merchants. Our PCI-certified Wi-Fi is a perfect fit for wireless POS equipment, while our PCI-certified templates facilitate bulk configuration and simplify compliance.

ADVANCED WIRELESS

Each Mako 4000 Series device features dual-band wireless and supports up to four wireless SSIDs per band. Mako 4600 models offer Wi-Fi 6 for the latest in wireless performance. Activate private and guest wireless networks at no extra charge

QUICK AND EASY TO DEPLOY

Mako devices allow for rapid, zero-touch deployment by automatically receiving templated and device-specific configurations from the Mako CMS. Sites where wall receptacles are unavailable, unreliable or incompatible can use PoE to power Mako 4000 Series devices.

FAST VIRTUAL PRIVATE NETWORKS

Mako 4000 Series devices can join your secure, reliable Mako VPN Cloud SD-WAN directly when configured as a security gateway or via another Mako device when configured as an AP. Link remote sites in seconds without requiring static IP addresses. Connect employees and contractors to your network from home or the field as safely and easily as connecting on-site.

CLOUD MANAGEMENT

Using a patented communications protocol, Mako 4000 Series devices connect to the Mako CMS securely over the public Internet. Authorized users have 24 / 7 remote access to a suite of cloud-based configuration tools, real-time alerts, reports, logs and diagnostics, reducing or eliminating on-site maintenance.

ENTERPRISE MONITORING

Enterprise-wide network information, including broadband status, cellular data usage, intrusion attempts, internet traffic and much more, are available as easy-to-understand visualizations and reports in the Mako CMS.

SIMPLE TO TROUBLESHOOT

In addition to Mako CMS diagnostic tools, the network LED on Mako 4000 Series devices provides internet and network connection information at a glance, making troubleshooting easy, even for non-technical personnel.

Basic 4500 Specifications

Hardware

Processors	QCA IPQ4018 + QCA8072
System Memory	Flash 32MB / RAM 256 MB
Interfaces	1 x 10/100/1000Mbps Ethernet WAN Port with 802.3af/at PoE 2 x 10/100/1000Mbps Ethernet LAN Ports 1 x DC Power Connector 1 x USB 2.0 Port
Mounting	Ceiling, T-Rail and Wall mount Optional pole mount, in-ceiling bracket and junction box plate

Radio

Dual Concurrent Radio	2.4GHz: 802.11b/g/n with max data rate up to 400Mbps 5GHz: 802.11a/n/ac with max data rate up to 867Mbps
Transmit Power (combined)	2.4GHz: 25dBm (max) 5GHz: 24dBm (max) Max transmit power is limited by regulatory power
Radio Chains / Spatial Streams	2 x 2 / 2

Physical and Environmental

Chassis Dimensions	142 x 142 x 34 mm (L x W x H) | (5.59 x 5.59 x 1.34 in)
Power Supply	Input DC 12 VDC/1A PoE: Compatible with 802.3af/at
Operating Temperature	32° F to 104° F 0° C to 40° C
Humidity	0% - 90% typical

4550 Specifications

Hardware

Processors	QCN5021 and QCN5052
System Memory	Flash 128MB / RAM 1GB
Interfaces	1 x 10/100/2500Mbps Ethernet Port with 802.3at/af PoE
Mounting	Wall mount, pole mount

Radio

Dual Concurrent Radio	2.4GHz: 802.11ax with max data rate up to 1148Mbps 5GHz: 802.11ax with max data rate up to 2400Mbps
Transmit Power (combined)	2.4GHz: 23dBm (max) 5GHz: 23dBm (max) Max transmit power is limited by regulatory power
Radio Chains / Spatial Streams	2 x 2 / 2

Physical and Environmental

Chassis Dimensions	190mm x 124mm x 47mm (L x W x H) | (7.48 x 4.88 x 1.85 in)
Power Supply	PoE: Compatible with 802.3af/at
Operating Temperature	-4° F to 140° F -20° C to 60° C
IP Rating	IP67

Basic 4600 Specifications

Hardware

Processors	QCA IPQ4018 + QCA8072
System Memory	Flash 32MB / RAM 256 MB (upgradeable to 2GB max)
Interfaces	1 x 10/100/2500Mbps Ethernet WAN Port with 802.3at PoE 4 x 10/100/1000Mbps Ethernet LAN Ports 1 x DC power connector 1 x USB 2.0 Port
Mounting	Ceiling, T-Rail and Wall mount Optional pole mount, in-ceiling bracket and junction box plate

Radio

Dual Concurrent Radio	2.4GHz: 802.11ax with max data rate up to 1148Mbps 5GHz: 802.11ax with max data rate up to 2400Mbps 4x4 MU-MIMO is backwards compatible with 802.11 ac/ a/n mode BT/BLE5.0 radio available. 5GHz/2.4GHz 802.11a/b/g/n/ac 1x1 selectable scanning radio available.
Transmit Power (combined)	2.4GHz: 23dBm (max) 5GHz: 23dBm (max) Max transmit power is limited by regulatory power
Radio Chains / Spatial Streams	4 x 4 / 4

Physical and Environmental

Chassis Dimensions	205mm x 205mm x 34mm (L x W x H) | (8.07 x 8.07 x 1.34 in)
Power Supply	Input DC 12 VDC/1A IEEE802.3at or Passive 48-54v PoE Input (2.5GbE port)
Operating Temperature	32° F to 104° F 0° C to 40° C
Humidity	0% - 90% typical