



Mako 5600

Secure, cloud-managed wireless connectivity

At a Glance

Security Gateway mode for full next-gen firewall capability

Radio Shift mode for optimizing edge device cellular WAN and Wi-Fi LAN radio placement

Exclusively cloud managed for zero-touch deployment

PCI DSS Certified

Available with 5G or 4G/LTE cellular radios

Security Gateway/Radio Shift Device

The Mako 5600 sits between the 4000 Series and the 6000 Series in the Mako lineup, sharing features with both and adding 5G cellular connectivity (4G/LTE version also available). It can be remotely configured or reconfigured as either a radio shifting device or a security gateway. Mako's unique PCI DSS certification ensures maximum security, while redundancy and seamless fast failover settings make the Mako 5600 exceptionally reliable and resilient. The performance benefits of 5G cellular broadband extend beyond faster transmission speeds. Upgrading to 5G also means reduced latency, increased capacity, improved coverage and negligible error rates. Two 2x2 MIMO radios enable dual-band Wi-Fi 6, which improves wireless communication speed, range, efficiency and security, resulting in a better experience for dense networks, increased signal reliability, reduced power consumption and enhanced encryption options. These next-gen connectivity standards directly address the explosion of device density in cellular and wireless environments. To keep pace with growing demand, Mako customers can upgrade to the latest technology by adding Mako 5600 devices to new and existing sites.

USER-DEFINED DEPLOYMENT MODES

The Mako 5600 can be configured for deployment as either a radio shifting device or a security gateway depending on your business needs. Mako devices can only be configured from the Mako Central Management System (CMS) for maximum security. These changes take place in real-time, without the need for an on-site visit or to locally flash the device.

NEXT-GEN FIREWALL

Most Mako security gateways feature Next-Generation Firewall (NGFW) technology, including packet inspection and Intrusion Detection and Prevention (IDS/IPS). All traffic entering and leaving a network is scrutinized to ensure network connections are authorized and intrusion attempts are identified and blocked. Port scanning protection, worm detection, MAC address control and complex firewall rules can be templated and deployed to thousands of Mako devices at once via the Mako CMS, massively reducing the time to implement changes and ensuring an organization's security posture is readily up to date.

CLOUD MANAGEMENT AND MONITORING

Using a patented communications protocol, Mako 5600 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-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.

MAKO VPN CLOUD MAKES VPNS EASY AND SECURE

The Mako 5600 is ideal for connecting remote workers, IoT applications or retail locations to head offices, data centers or third-party application providers easily and securely. The Mako 5600 can be used to join a Mako VPN Cloud, which supports circuit, hardware and geographic redundancy, allowing your Mako device to connect to fast, reliable VPNs directly over broadband when configured as a security gateway, or in conjunction with other Mako devices when configured as an AP. Using Mako VPN Cloud technology, remote locations can be linked by encrypted tunnels in seconds without requiring static IP addresses.

FLEXIBLE WAN OPTIONS, INCLUDING 5G CELLULAR

Mako 5600 devices provide WAN connectivity via single- or dual-SIM 5G or LTE cellular and Ethernet. No matter what technology your business uses to connect to the Internet, Mako can support and protect it.

These SD-WAN connections can be configured to failover from one to another in the event of a service outage. Choose the amount of internet reliability and resiliency your business needs. Fast failover configurations deliver seamless connectivity that keeps stateful data like live voice calls connected through a failover event.

PCI DSS CERTIFIED

The entire Mako System—including the Mako CMS, all Mako devices and firmware, and our proprietary wireless networking technology—is end-to-end PCI DSS certified, providing peace of mind and security for businesses that accept credit cards. Mako's PCI-certified enterprise templates facilitate bulk security configuration of Mako devices, and Mako's PCI-certified wireless networking technology is a perfect fit for tablet-based POS systems.

SECURE WI-FI

The Mako 5600 features Wi-Fi 6 (dual-band 802.11a/b/g/n/ac/ax), the latest wireless standard, for customer hotspots or general business use and supports up to four wireless SSIDs per frequency band. The Mako System's PCI DSS certification covers both wired and wireless communications, so your Wi-Fi networks can be configured for high security.

SIMPLE TROUBLESHOOTING

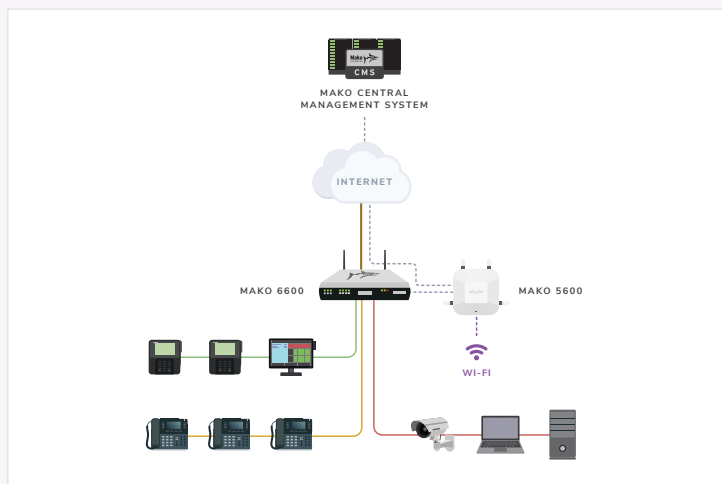
In addition to Mako CMS diagnostic tools, the network LED on the Mako 5600 provides Internet and network connection information at a glance. For non-technical users, this makes it easy to quickly troubleshoot network issues.

QUICK AND EASY DEPLOYMENT

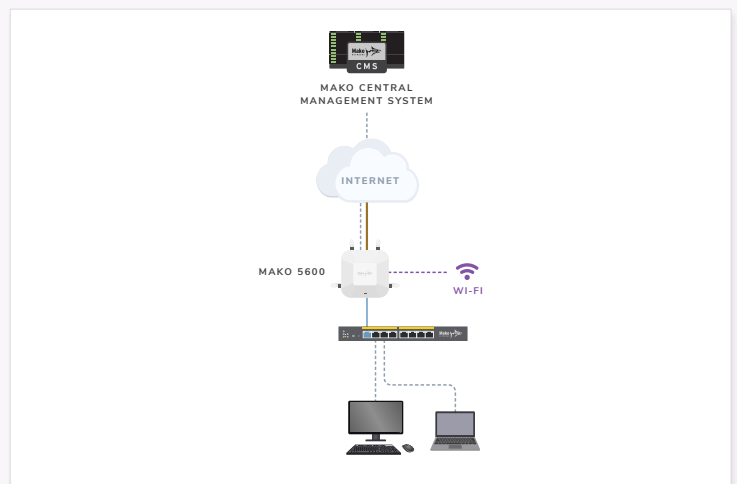
Like all Mako devices, the 5600 allows for zero-touch deployment by automatically receiving device-specific configuration information from the Mako CMS via the Cloud. Remote sites can get up and running quickly, easily and securely.

Typical Network Configurations

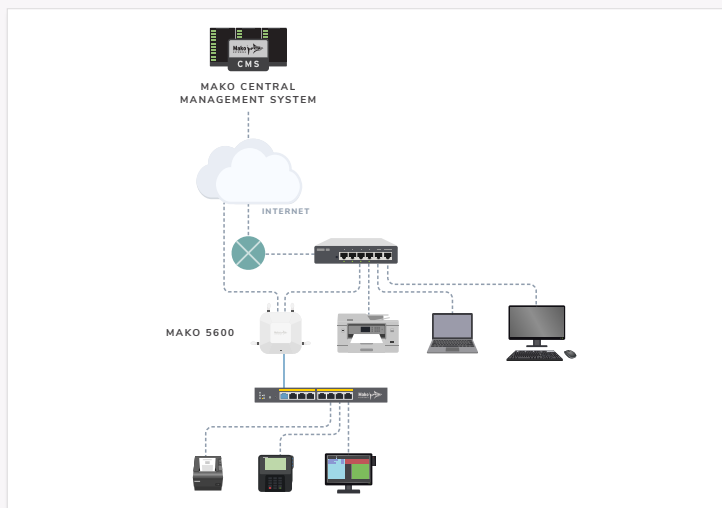
RADIO SHIFTER



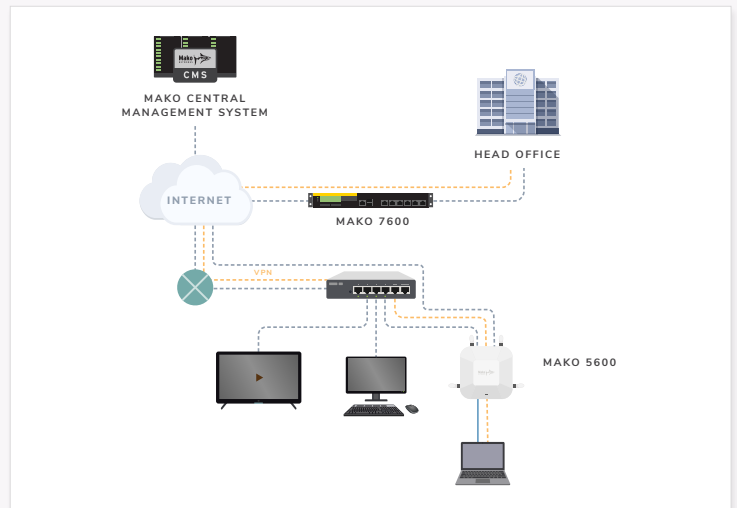
EDGE DEVICE



ZONE ROUTER



HOME WORKER



Mako 5600 Specifications

Hardware

| | |
|-----------|--|
| Interface | 1 x 10/100/1000/2500 Mbps Ethernet Port with 802.3af/at PoE 4 x 10/100/1000 Mbps Ethernet Port 5G or LTE Cellular Interface, Dual SIM, Single Radio (Active/Standby) 1 x DC power connector 1 x USB 2.0 Port |
| Mounting | Includes: ceiling, t-rail and wall mount, pole mount, in-ceiling bracket and junction box plate |



Mounting Options: wall/ceiling, in ceiling, pole, T-rail clips, junction plate

Cellular Protocols

| | |
|-------------|---|
| 5600-5G | |
| Region | Global |
| 5G NR | n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/ n71/n77/n78/n79 |
| LTE | B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/ B12(17)/B13/B14/B20/B25/B26/B28/ B29/B30/B32/B38/B39/B40/B41/B42/ B43/B46/B48/B71 |
| 5600-LTE US | |
| Region | North America |
| LTE-FDD | B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 |
| LTD-TDD | B41 |
| 2x CA | B2+B2/B5/B12/B13/B29; B4+B4/B5/B12/B13/B29; B7+B5/B7/B12/B26; B25+B5/B12/B25/B26; B30+B5/B12/B29; B66+B5/B12/B13/B29/B66; B41+B41 |
| UMTS-WCDMA | B2/B4/B5 |

| | |
|------------|--|
| 5600-LTE | |
| Region | APAC/EMEA/Brazil |
| LTE-FDD | B1/B3/B5/B7/B8/B20/B28/B32 |
| LTD-TDD | B38/B40/B41 |
| 2x CA | B1+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41 |
| UMTS-WCDMA | B1/B3/B5/B8 |

Radio

| | |
|--------------------------------|--|
| Dual Concurrent Radio | 2.4 GHz: 802.11ax with max data rate up to 574 Mbps; 2 x 2 MU-MIMO is backwards compatible with 802.11 b/g/n 5 GHz: 802.11ax with max data rate up to 1200 Mbps; 2 x 2 MU-MIMO is backwards compatible with 802.11 ac/ a/n mode |
| Transmit Power (combined) | 2.4 GHz: 20 dBm (max) 5 GHz: 20 dBm (max) Max transmit power is limited by regulatory domain |
| Radio Chains / Spatial Streams | 2.4 GHz: 2 x 2 / 2 SU-MIMO 5 GHz: 2 x 2 / 2 SU-MIMO MU-MIMO allows multiple spatial streams to be allocated to different clients simultaneously on both download and upload sides |

Wi-Fi

| | |
|----------------|---|
| Operating Mode | AP, WDS, client bridge |
| SSIDs | Supports up to 4 SSIDs per frequency band |
| Guest Network | Allocates a separate network segment for guest access within the same WLAN |
| Mobility | 802.11k/r/v support |
| Security | WPA/WPA2 PSK Hidden SSID MAC address filtering (up to 50 MAC) Client isolation |
| Other | Wireless Client List Background Scanning Auto Transmit Power Band Steering Orthogonal frequency-division multiple access (OFDMA) Tx Beamforming (TxBF) BSS Coloring |

VPN Throughput

| | |
|-----------------|----------------|
| VPN Cloud | Up to 150 Mbps |
| IPsec | Up to 150 Mbps |
| Concurrent VPNs | 20 |

Physical and Environmental

| | |
|-----------------------|---|
| Chassis Dimensions | 8.11 x 8.11 x 1.79 in 206 x 206 x 45.5 mm (L x W x H) |
| Power Supply | Input DC 12 VDC/1A IEEE802.3bt(type-3)/at PoE Input (2.5 GbE port) |
| Operating Temperature | 32 °F to 104 °F 0 °C to 40 °C |
| Humidity | 0 % to 90 % typical |