

MAX HD1 Dome

PRO

5G Cellular Router
for outdoor deployments



A refinement in outdoor interconnectivity

The MAX HD1 Dome Pro adapts to the flexible nature of outdoor deployments, offering powerful speeds, with refined Wi-Fi options. The **5G modem**, with its **embedded cellular antennas**, ensures minimal cable loss and offers the finest signal quality.



+



Wi-Fi as WAN

Wi-Fi 6

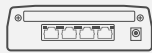
The **Wi-Fi 6** and **Wi-Fi as WAN** support can optimize your network and provide versatility as and when required. Leverage bandwidth costs and easily expand your network. Experience no more interruptions with SpeedFusion's hot failover options.



peplink



 x2



 x8



Instant **flexibility** with the SIM injector.

Simply connect an Ethernet cable between the SIM injector[^] and the MAX HD1 Dome Pro to manage up to **10 physical SIMs**.

With remote network management available via Peplink's management system, InControl2, accessibility worries are a thing of the past.

SIM Injector **Specifications**

SIM Slots	8x Active SIM Slots, Standard Size	Weight	430 grams / 0.94 pounds
LAN Interface	4x GE, PoE 802.3at Support	Operating Temperature	-40 - 149 °F / -40 - 65 °C
Power Input	DC Jack / Terminal Block: 12-56V	Humidity	15% - 95% (non-condensing)
Dimensions	1.6 x 5.8 x 5 inches / 40 x 147 x 128 mm		



[^]We are now offering bundle value when purchased together. Contact your point of sales for more information.

Together it works

The MAX HD1 Dome Pro can **optimize network performance** with its PoE functionality. Leverage the power of SpeedFusion by simply connecting Peplink PoE routers, for a mega-bandwidth channel, with the simplest failover option. Or alternatively, extend the Wi-Fi range by connecting an external access point.



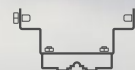
A design that's made to meet your needs



M35 Screw Mount

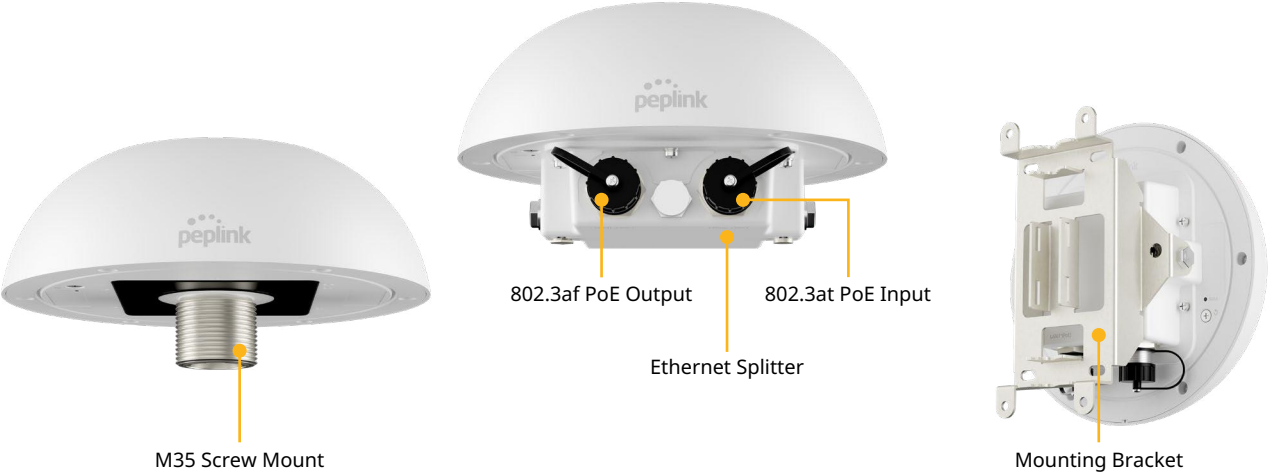


Ethernet Splitter



Mounting Bracket

It's simple design offers a multitude of installation options. The HD1 Dome Pro includes an **M35 screw mount** and **Ethernet splitter**, making it easy for wall or pole mount. If mounting is not needed, simply connect an Ethernet cable and it's good to go.



Specifications

WAN Interface	1x 5G/LTE Modem with Redundant SIM Slots ¹	Power Consumption	20 W (max., without PoE output)
LAN Interface	1x 10/100/1000M Ethernet ^{2 3}	Dimension	4.33 inches (radius) x 4.53 inches (height) 110 mm (radius) x 115 mm (height)
Wi-Fi Interface	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 6, 2X2 MIMO Wi-Fi WAN and/or AP	Weight	With Ethernet Splitter: 3.75 pounds / 1.7 kg Without Ethernet Splitter: 2.65 pounds / 1.2 kg
Number of SpeedFusion VPN Peers	3 / 10 / 20 ⁴	Operating Temperature	-40°– 149°F / -40°– 65°C
Enclosure	Rugged outdoor IP67 (with Ethernet Splitter)	Humidity	15% – 95% (non-condensing)
Recommended Users	150	Certifications	FCC, CE, RoHS, EN 50124-1 Railway Application - Insulation Coordination EN 50155 Railway Application - Rolling Stock - Electronic Equipment EN 61000 Electromagnetic Compatibility
Cellular Data Rate (Downlink / Uplink)	5G: 3.4 Gbps / 900 Mbps	Package Content	MAX HD1 Dome Pro, Ethernet Splitter, 2x Waterproof Ethernet Connector (ACW-112), Mounting Kit Set
Antenna	4X4 Internal MIMO Cellular Antennas 2X2 Internal MIMO Wi-Fi Antennas 1x Internal GPS Antenna	SIM Options	Nano-SIM (4FF) Peplink eSIM BYO eSIM (2 profiles) ⁵ RemoteSIM from SIM Injector FusionSIM
Power Input	1x 802.3at PoE+	Warranty	1-Year Limited Warranty
Power Output	1x 802.3af PoE (with Ethernet Splitter)		

¹ SIM Injector is available separately.
² Ethernet LAN port can be split into two LAN ports using the included splitter (1x LAN 802.3af PoE out, 1x LAN 802.3at PoE+ in).
³ Ethernet port includes surge and ESD protection circuits to protect against over-voltage transients.
⁴ 3 SpeedFusion VPN Peers are enabled by default. 10 or 20 SpeedFusion VPN peers can be enabled with software license (PVN-LC-10 and PVN-LC-20).
⁵ Available with Firmware 8.4.0 or above.

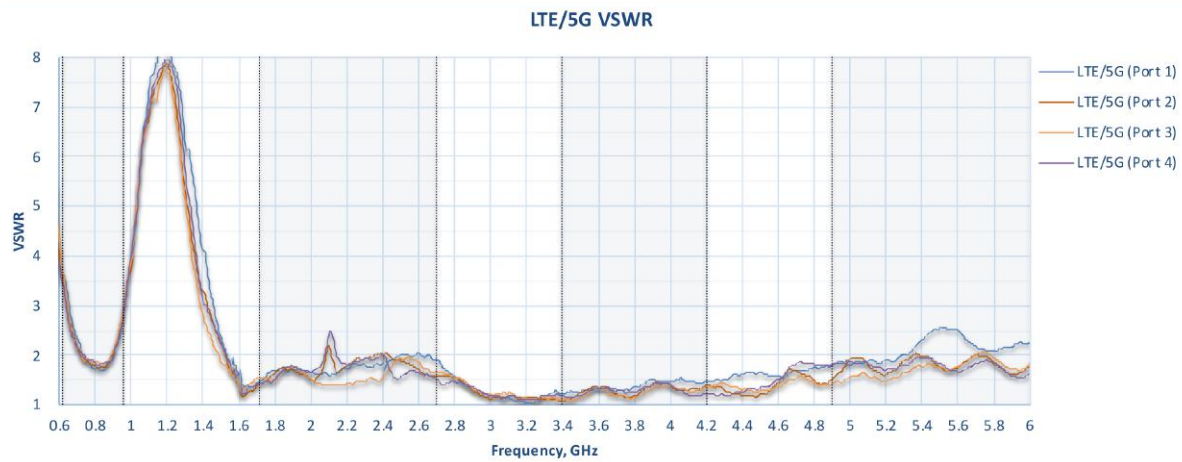
Ordering Information

Product Code	Regions	5G Bands	LTE Bands
MAX-HD1-DOM-PRO-5GN Embedded Modem(s): 1x 5G	Global* *US Carrier Certifications: AT&T, T-Mobile, Verizon, FirstNet	5G (SA & NSA) Sub 6Ghz: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71
MAX-HD1-DOM-PRO-5GN-C1 Embedded Modem(s): 1x 5G	Global* *US Carrier Certifications: AT&T, T-Mobile, Verizon, FirstNet	5G (SA & NSA) Sub 6Ghz: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71

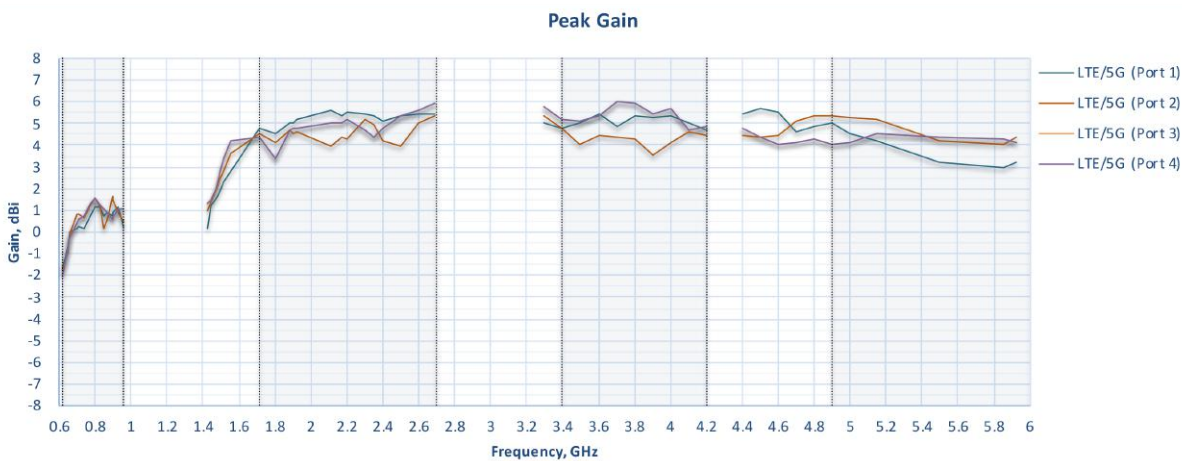
Featured Add-on

Product Code	Description
SIM-BK8-4E-56V-DOM	MAX HD1 Dome Pro Bundle Offer - SIM Injector , 8x SIM cards capacity, 4x 10/100/1000 LAN ports, 56V DC

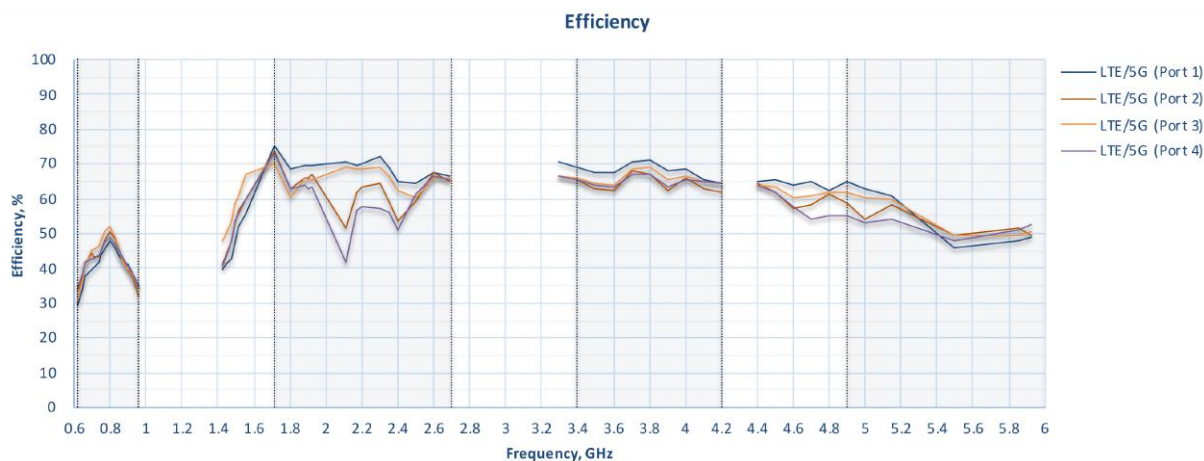
Cellular Antenna VSWR



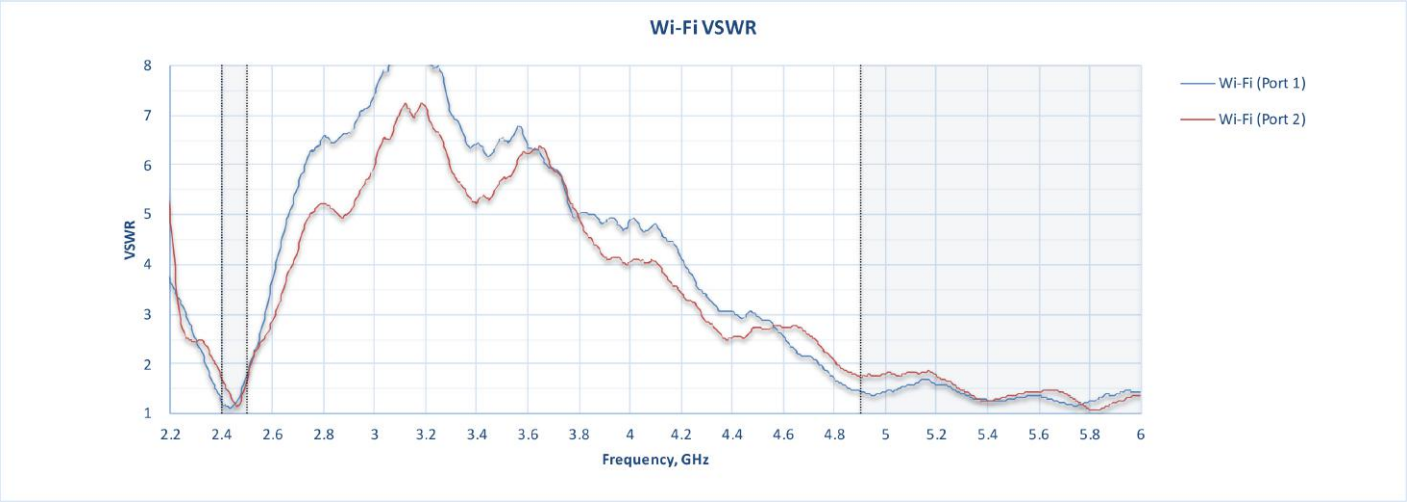
Cellular Antenna Gain



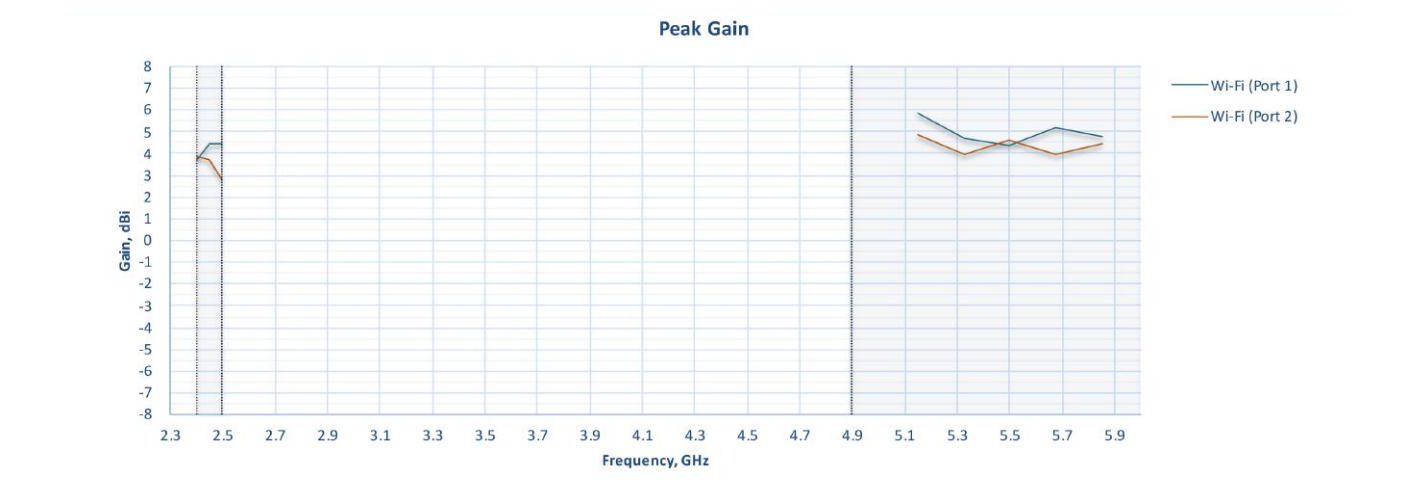
Cellular Antenna Efficiency



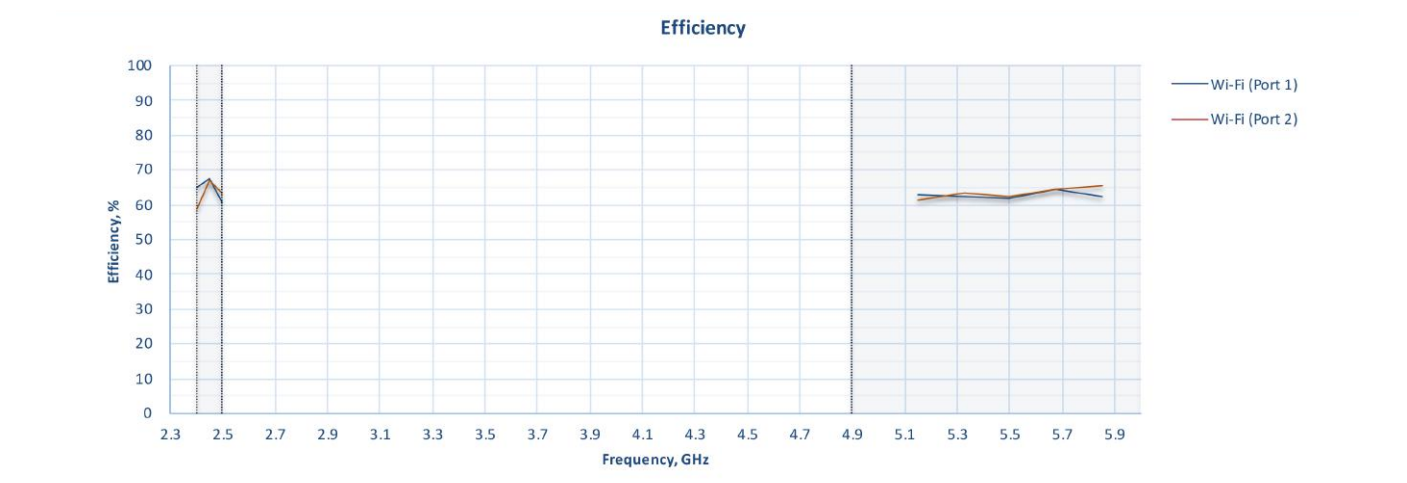
Wi-Fi Antenna VSWR



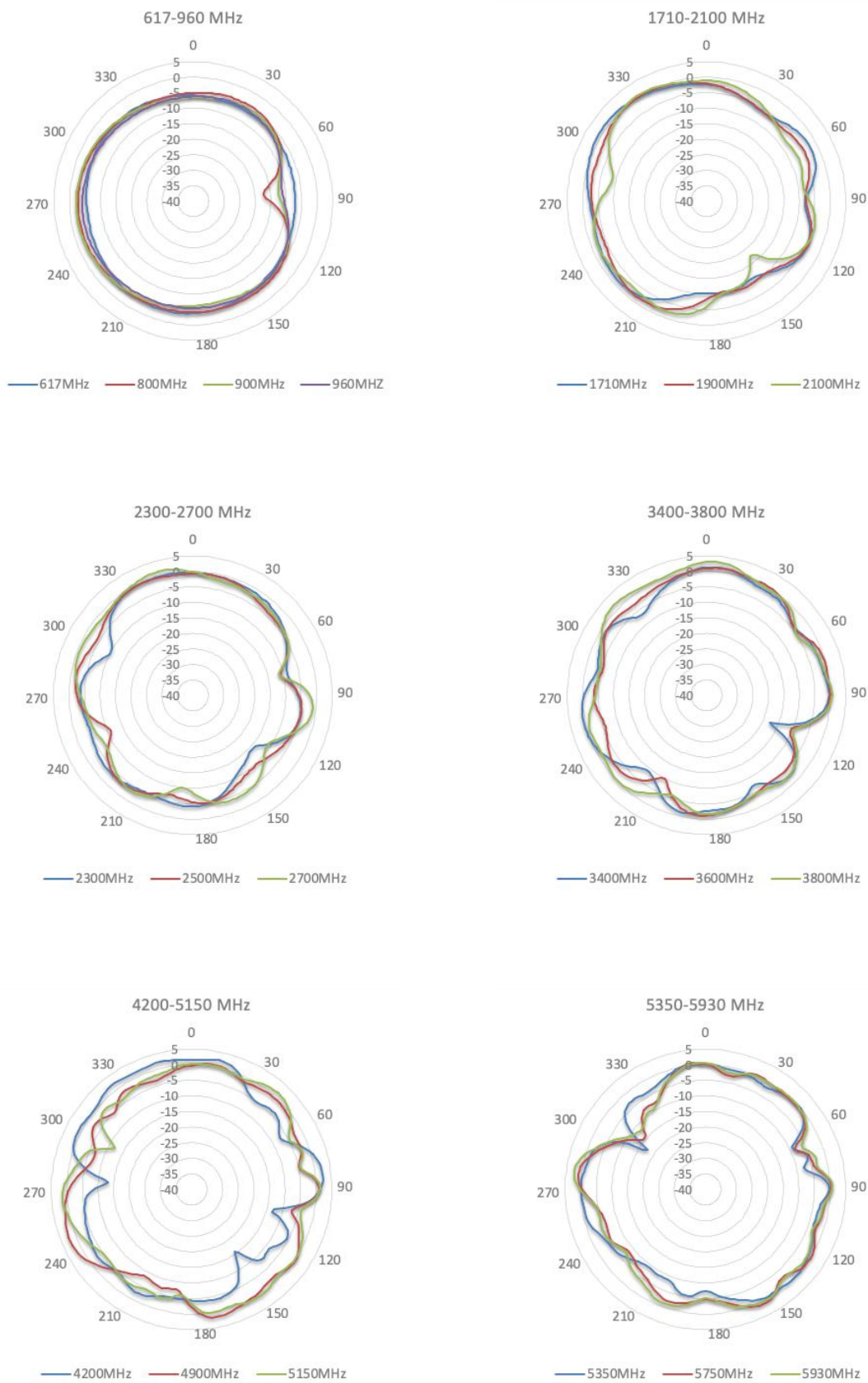
Wi-Fi Antenna Gain



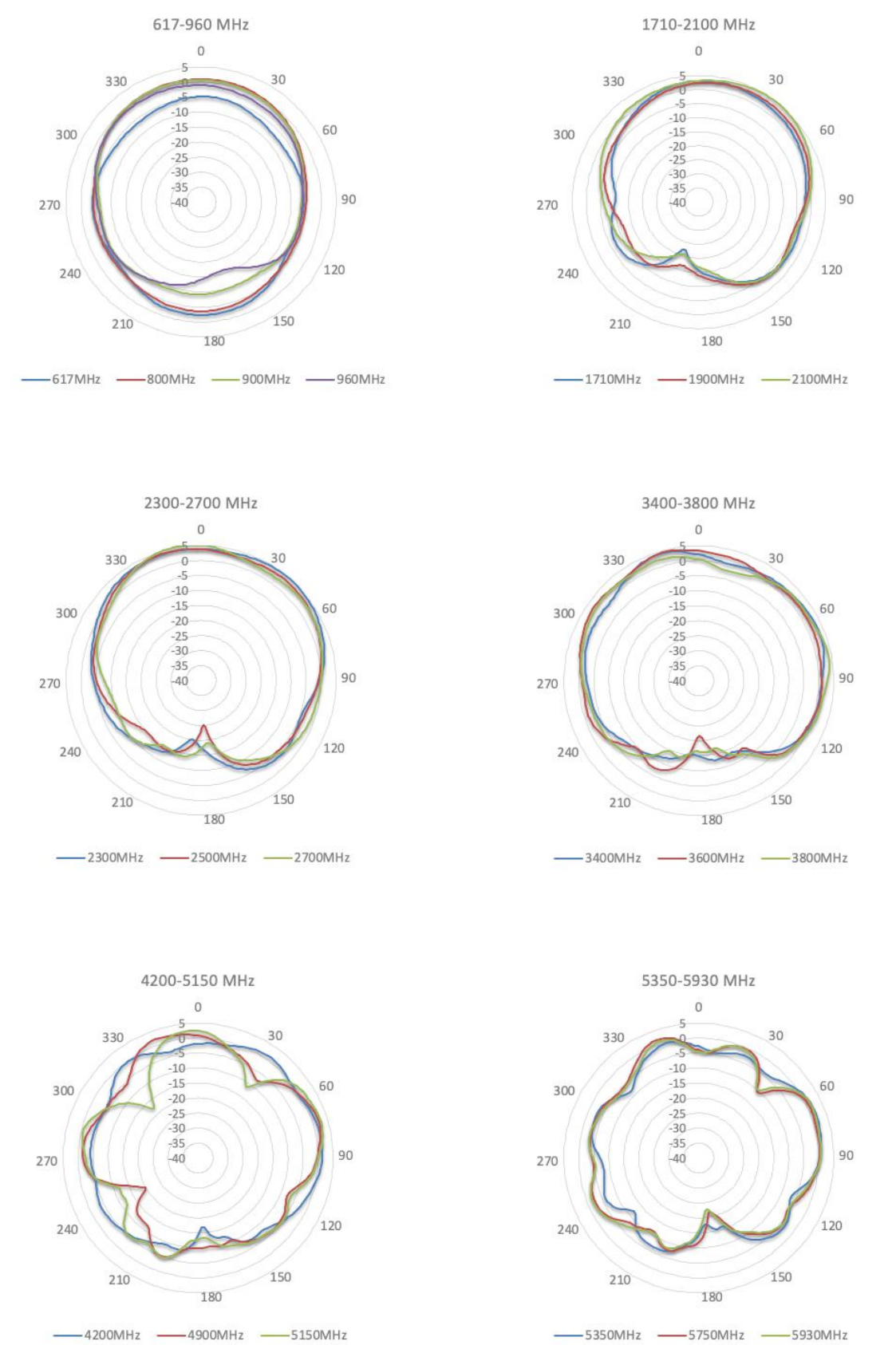
Wi-Fi Antenna Efficiency



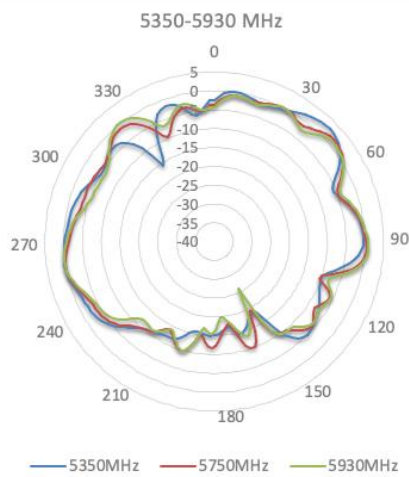
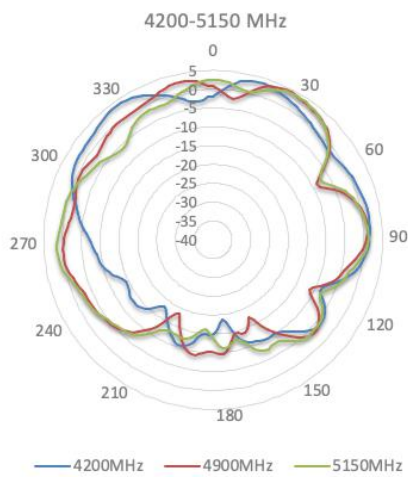
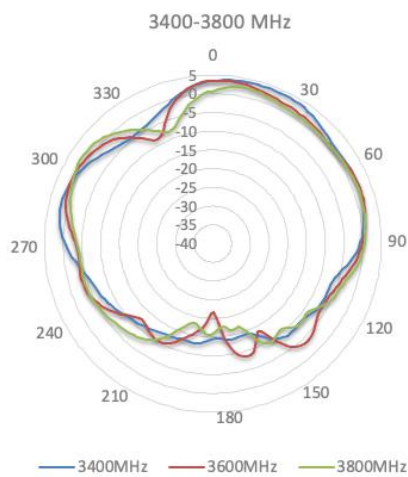
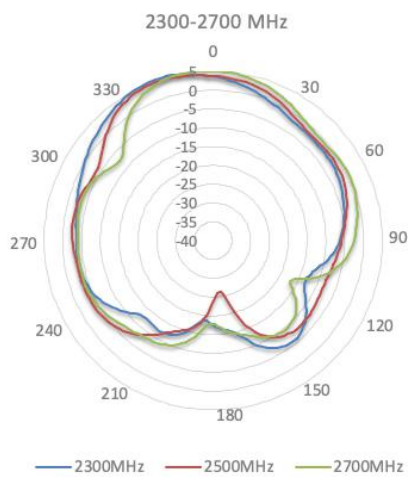
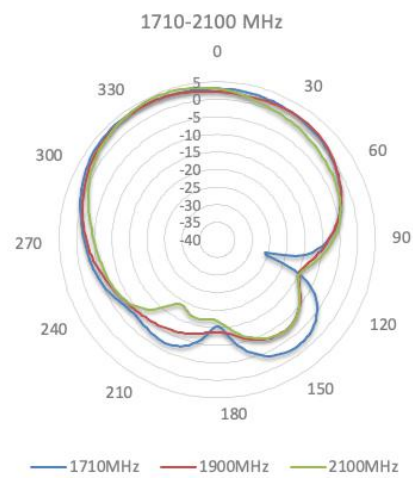
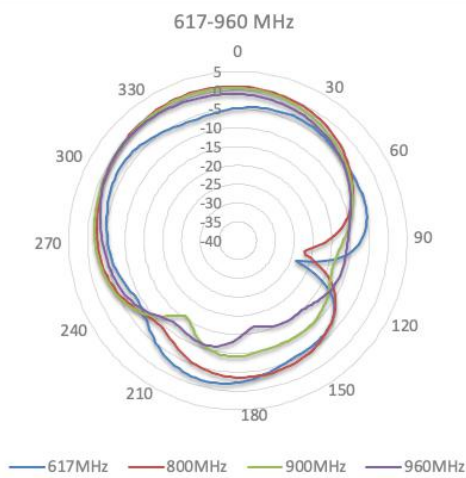
LTE Radiation Patterns (Azimuth)



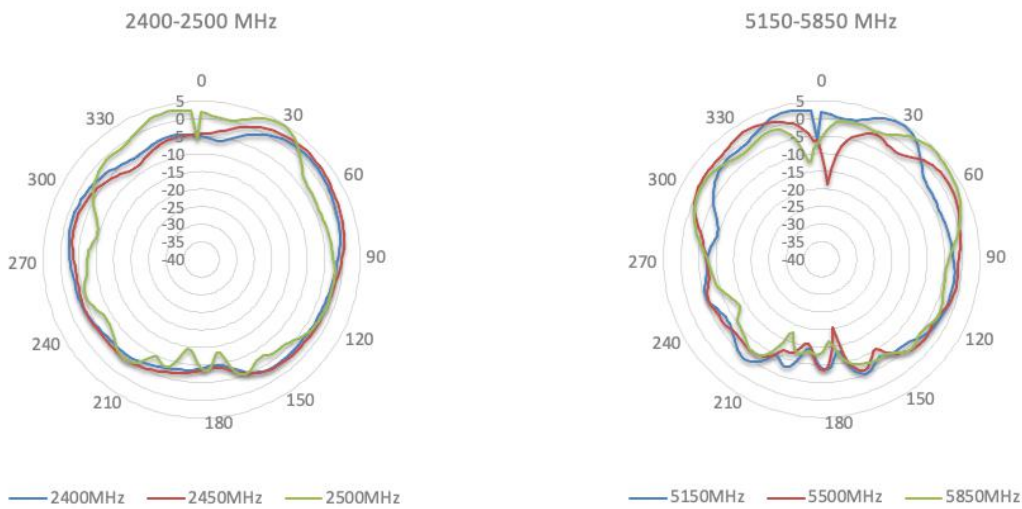
LTE Radiation Patterns (Elevation 1)



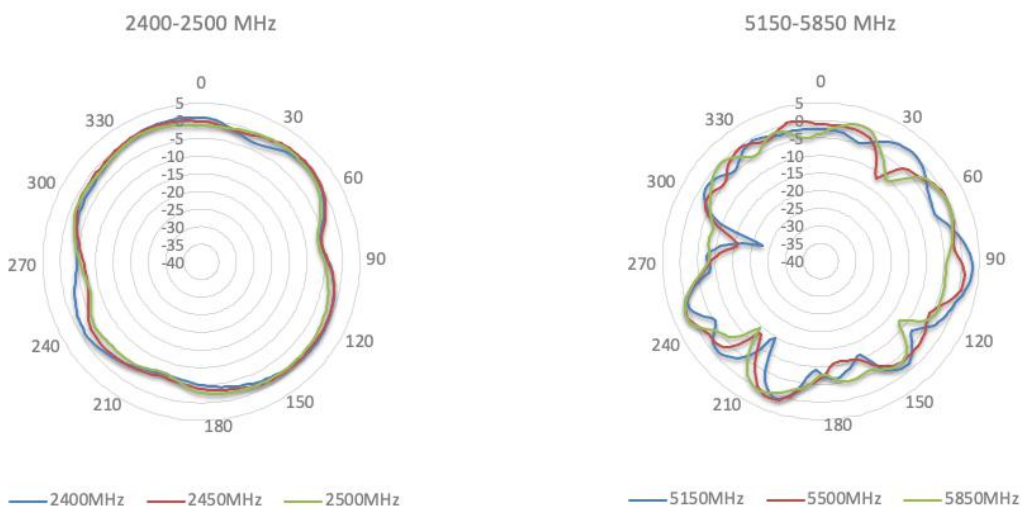
LTE Radiation Patterns (Elevation 2)



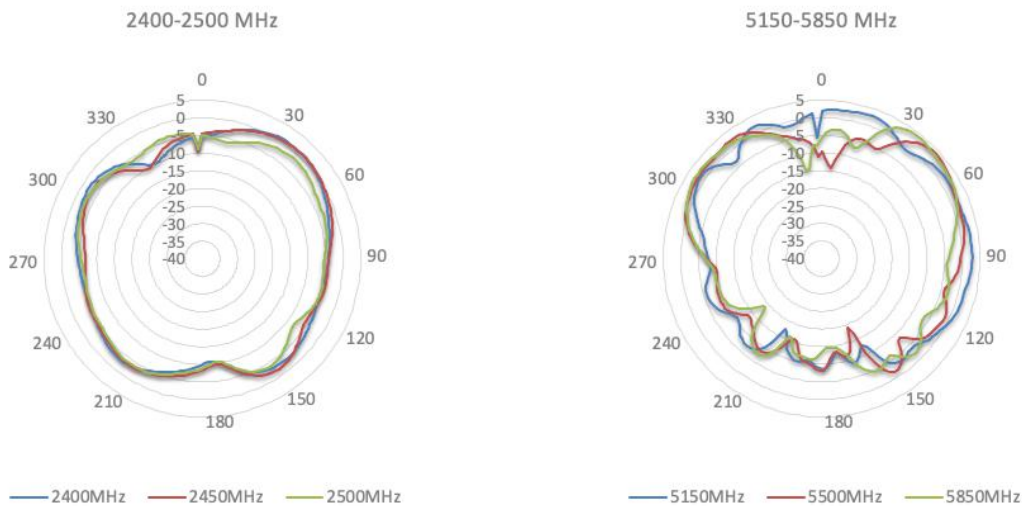
Wi-Fi Radiation Patterns (Azimuth)



Wi-Fi Radiation Patterns (Elevation 1)



Wi-Fi Radiation Patterns (Elevation 2)



Deep Dive

Software	Pepwave MAX Firmware	Global Positioning System	Integrated GPS Device Location Map Location Tracking Data with InControl 2 Fleet Management with InControl 2
WAN	Support for PPPoE, Static IP, DHCP WAN Link Health Check Bandwidth Allowance Monitor Support for Dynamic DNS services DNS over HTTPS WAN Quality Monitoring VirtualWAN on VLAN	Ethernet Ports Controller	Enable/Disable Interface Enable/Disable PoE Interface Up/Down Status
LAN	DHCP Server for LAN Clients Extended DHCP Option DHCP Reservation DNS Proxy for LAN Clients VLAN on LAN Support Port-based 802.1X Single-Auth 802.1X Single-Auth MAC-based	Networking	NAT and IP Forwarding Static Routes Port Forwarding Many to One, One to One NAT NAT Pool SIP ALG, H.323 ALG UPnP, NAT-PMP
Security	Stateful Firewall DoS Prevention Web Blocking	Usage Report	Active Session Client Usage (IP based/ MAC Based) Bandwidth Usage per WAN (Download/Upload) • Real-Time • Hourly • Daily • Monthly
Complete VPN Solution	SpeedFusion VPN/SpeedFusion • Hot Failover • Site-to-Site VPN • 256-bit AES Encryption • Pre-shared Key Authentication • Dynamic Routing IPsec VPN (Network-to-Network) OpenVPN GRE Tunnel	AP Controller	Support for Pepwave AP Series Auto AP Discovery Auto AP Firmware Management AP Profile Configuration Wi-Fi Usage Statistics
Advanced QoS	Individual Bandwidth Limit Group Bandwidth Reservation Application Prioritization • SIP, HTTPS, VPN QoS • Custom Application QoS	Captive Portal Support	Support for Wired and Wireless LAN clients Support RADIUS Authentication Time and Usage Quotas on Open Access Mode Built-in Customizable Splash Page
Advanced	802.1X Authentication (Authentication by Radius)	Device Management	Web Administrative Interface Command Line Interface InControl Management Email Notification Active Client & Session Lists Bandwidth Usage Statistics Syslog Service SNMP v1, v2c and v3
		Support	Diagnostic Report Network Capture Remote Assistance