

M850 M840 Low-Profile Series Series Mobility M2M IoT Bolt Mount Antenna Specifications
Multi-Network Multi-MIMO Cellular 4G LTE 5G NR / GNSS / Multi-MIMO Multi-Band WiFi 6 / Bluetooth (2.4GHz)
Private Networks: Anterix / CBRS / LoRaWAN / WiFi HaLow / Wi-SUN
Compatible with Smart Router Antenna Technology

Frequency Range: 4G LTE 5G NR Anterix / LoRaWAN / WiFi HaLow / CBRS Frequency Range WiFi 1/6	617-960MHz / 1710-6000MHz 896~940MHz / 902~928MHz / 3550-3700MHz 2.4-2.5GHz / 4.9-6GHz (Concurrent)
Avg Isotropic Peak Gain: 4G LTE 5G NR : Anterix LoRaWAN WiFi HaLow CBRS Avg Isotropic Peak Gain: WiFi 6	(3.98dBi) 617-960MHz / (4.97dBi) 1710-3800MHz / (3.60dBi) 4900-6000MHz (7.84dBi) 896~940MHz / (6.68dBi) 902~928MHz / (5.95dBi) 3550-3700MHz (4.30dBi) 2.4-2.5GHz / (3.86dBi) 4.9-6GHz
Typical Efficiency: 4G LTE 5G Elements Anterix LoRaWAN WiFi HaLow CBRS Typical Efficiency: WiFi Elements	617-960MHz >59% 1710-3800MHz >68% 4900-6000MHz >38%
Isolation 4G LTE 5G Elements Isolation WiFi Elements	>10dB >12dB
Correlation Co-efficient: 4G 5G Elements Anterix LoRaWAN WiFi HaLow CBRS Correlation Co-efficient: WiFi 6 Elements	<0.2 <0.2 <0.2
Nominal Impedance	50Ω
GNSS Specifications	GPS Glonass Galileo QZSS BeiDou Compass In-Band Frequency Interference Filter for LTE B13 B14
Frequency Range	1562-1612MHz
LNA Gain	29dB ± 2dB
VSWR	<2.0:1
Out of Band Rejection	>45dB (@ > +/- 100MHz f)
Typical Noise Figure	<-2dB
Notch Filter Rejection @787MHz	24dB
Operating Voltage / Typical Current	3-5V DC / 15mA

Mechanical / Environmental Specifications

Antenna Housing	High Impact UV Stable ABS Polymer (Black or White) Housing Height: 34.80mm (1.37") / Housing Diameter: 118.87mm (4.68")
Connector Types	All Standard RF Connectors Available
15ft Coax Cables (All Cables Full Length)	Cellular 4G 5G AGA200 Coax / Multi Band WiFi Bluetooth AGA200 Coax / GPS GNSS AGA200 Coax * Custom cable lengths & connector end options are available (Including FAKRA Connector Ends)
Bolt Mount	Stainless Steel Mounting Bolt: Length 17mm (0.67") / Diameter 22mm (0.90")
Operating Temp	-40° / +70°C (-40° / +158°F)
Ingress Protection	IP69K

Supported Cellular Service Provider Networks	
Verizon <i>Including MVNO's</i>	Verizon 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B13 B46 B48 B66 5G NR: N2 N5 N13 N66 N77 N79 (C-Band)
T-Mobile <i>Including MVNO's</i>	Mobile 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B12 B41 B66 B71 5G NR: N2 N25 N41 N71 N79 (C-Band)
AT&T <i>Including MVNO's</i>	AT&T 4G LTE 5G NR Bands 4G LTE: B2 B4 B5 B12 B14 B17 B29 B30 B48 B66 5G NR: N2 N5 N66 N77 N79 (C-Band)
Supported Private Networks	
Anterix	Anterix 4G LTE 5G Bands (AG Antennas are Anterix 4G 5G Ready) 900MHz Band (896-901MHz / 935-940MHz) B8 B106
CBRS	CBRS 4G LTE 5G Bands (AG Antennas are CBRS 4G 5G Ready) 3.5GHz Band (3550-3700MHz) B48
WiFi HaLow	WiFi HaLow Bands (AG Antennas are WiFi HaLow Ready) 900MHz Band (902-928MHz) IEEE 802.11ah
LoRaWAN	LoRaWAN 4G LTE 5G Bands (AG Antennas are LoRaWAN Ready) 915MHz Band (902-928MHz) US915
Wi-SUN	Wi-SUN 4G LTE 5G Bands (AG Antennas are Wi-SUN Ready) 915MHz Band (902-928MHz) IEEE 802.15.4g
Supported WiFi IEEE Standards	
WiFi 1-6	WiFi 1 WiF 2 (802.11ba) WiFi 3 (802.11g) WiFi 4 (802.11n) WiFi 5 (802.11ac) WiiFi 6 6E (802.11ax)
WiFi HaLow Wi-SUN	WiFi HaLow (802.11ah) Wi-SUN (802.15.4g)
Supported GNSS	
GNSS	GPS Glonass Galileo QZSS BeiDou Compass



Bolt Mount



M850 M840 Low-Profile Bolt Mount Series Antenna Dimensions

M800 MIMO Low-Profile Bolt Mount Series Antenna Dimensions



Stainless Steel Mounting Bolt
 Length 17mm (0.67")
 Diameter 22mm (0.90")

M800 MIMO Low-Profile Series Bolt Mount Dimensions



M850 M840 Low-Profile Series Antenna
Optional L-Bracket Mount (Sold Separately)

M800 Low-Profile Series Antenna
w/ Optional AG-Lander Mag Mount
(M-Lander Sold Separately)



Optional
Rugged Adjustable
M-Lander Magnetic Mount
(Sold Separately)

M800 Low-Profile Series Antenna
w/ Optional L-Bracket Mount
(L-Bracket Sold Separately)



Optional:
L-Bracket Mount Adapter
w/ U-Bolt Set
(Sold Separately)

M850 M840 Low-Profile Series Antenna Housing Color Options

Black | White



Bolt Mount



M850 M840 Low-Profile Series Antenna Cable Connector End Labels (SMA Connector Ends)

CELL | WIFI | GPS

Cell: SMA Male



WiFi: RP SMA Male



WiFi: SMA Male



GPS: SMA Male



M850 M840 Low-Profile Series Antenna Configuration Options

SMA Connector Ends
Bolt Mount

M850 5-Element
Bolt Mount
Configurations
(5-Lead)

M850-BB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M850-BW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White)
 M850-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
 M850-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)
 M850-BB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black)
 M850-BW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White)



M840 4-Element
Bolt Mount
Configurations
(4-Lead)

M840-BB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
 M840-BW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
 M840-BB-2CG-WSM: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
 M840-BW-2CG-WSM: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
 M840-BB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M840-BW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
 M840-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
 M840-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
 M840-BB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
 M840-BW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)



M850 M840 Low-Profile Series Antenna Housing Color Options

Black | White



Bolt Mount



M850T M840T Low-Profile Series Antenna Cable Connector End Labels (TNC Connector Ends)

CELL | WIFI | GPS

Cell: TNC Male



WiFi: RP TNC Male (WTR)



GPS: RP TNC Male (GTR)



WiFi: TNC Male



GPS: TNC Male



M850T M840T Enterprise Series Antenna Configuration Options (TNC Connector Ends)

Compatible with Smart Router / LTE 5G HUPA Antenna Technologies
 AG65T 5-Leads | AG64T 4-Leads

M850T 5-Element Bolt Mount Configurations (5-Lead)

AG65T-BB-2C-GTR-2WTR: MIMO 2 x Cell 4G LTE CBRS 5G NR / GNSS / MIMO 2 x Multi Band WiFi 6 – (Black)
 AG65T-BW-2C-GTR-2WTR: MIMO 2 x Cell 4G LTE CBRS 5G NR / GNSS / MIMO 2 x Multi Band WiFi 6 – (White)

M840T 4-Element Bolt Mount Configurations (4-Lead)

M840T-BB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
 M840T-BW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
 M840T-BB-2CG-WTR: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
 M840T-BW-2CG-WTR: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
 M840T-BB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M840T-BW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
 M840T-BB-2G-2WTR: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M840T-BW-2G-2WTR: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
 M840T-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
 M840T-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
 M840T-BB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
 M840T-BW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)
 M840T-BB-4WTR: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
 M840T-BW-4WTR: Multi MIMO 4 x Multi-Band WiFi 6 – (White)



M850F M840F Low-Profile Series Antenna Housing Color Options

Black | White



Bolt Mount



M850F M840F Low-Profile Series Antenna Cable Connector End Labels (FAKRA Connector Ends)

CELL | WIFI | GPS



Cell FAKRA-D



WiFi FAKRA-I



GPS FAKRA-C



Bluetooth FAKRA-G

M850F M840F Low-Profile Series Antenna Configuration Options

FAKRA Connector Ends

M850F 5-Element Configurations

M850F-BB-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M850F-BW-2CG2W: MIMO 2 x Cellular 3G 4G 5G / GPS GNSS / MIMO 2 x Multi-Band WiFi 6 – (White)
 M850F-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
 M850F-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)
 M850F-BB-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (Black)
 M850F-BW-4WG: Multi-MIMO 4 x Multi-Band WiFi 6 / GPS GNSS – (White)



M840F 4-Element Configurations

M840F-BB-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (Black)
 M840F-BW-2CGW: MIMO x 2 Cellular 3G 4G 5G / GPS GNSS / Multi-Band WiFi 6 – (White)
 M840F-BB-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (Black)
 M840F-BW-2C2W: MIMO x 2 Cellular 3G 4G 5G / MIMO 2 x Multi-Band WiFi 6 – (White)
 M840F-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
 M840F-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)
 M840F-BB-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (Black)
 M840F-BW-4W: Multi MIMO 4 x Multi-Band WiFi 6 – (White)



M850Q M840Q Low-Profile Series Antenna Cable Connector End Labels (QMA Connector Ends)

CELL | WIFI | GPS



Cell QMA Male



WiFi RP SMA Male



GPS QMA Male

M850Q M840Q Low-Profile Series Antenna Configuration Options

QMA Connector Ends

M850Q 5-Element Configurations

M850Q-BB-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (Black)
 M850Q-BW-4CG: Multi-MIMO 4 x Cellular 3G 4G 5G / GPS GNSS – (White)



M840Q 4-Element Configurations

M840Q-BB-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (Black)
 M840Q-BW-4C: Multi-MIMO 4 x Cellular 3G 4G 5G – (White)

