

# Advantech

## Industrial Wireless Solutions

Reliable Wireless Turnkey Solutions for Industrial Applications

- / Product Series
- / Partner Collaboration
- / Design-In Services
- / Case Studies



Wireless Design-In Services



**ADVANTECH**

*Enabling an Intelligent Planet*

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# Wireless Connectivity for AIoT

Provider empowering edge devices by connecting them via wireless solutions for different vertical applications and focuses on wireless system for AIW Design-In service.



Transportation



AGV



Medical



Smart Cities



## Antennas

Antenna Assessment, Design, and Testing



### Series Connectivity



**AIW-346**  
052  
FMC/  
Slot

**AIW-357**  
M.2 3052  
B-Key

### AIW 400 Series Bluetooth 5.4



**AIW-450**  
LGA Type

### AIW 500 Series Industrial Antenna Solution



Antennas for Wi-Fi 6, 6E, 7, GPS/GNSS, 4G LTE, 5G NR, Bluetooth, and RF cables

# AIW Product Series

## Designed for Your AIoT Solutions

The AIW product portfolio is composed of Wi-Fi, GNSS, cellular, Bluetooth, and antennas. AIW products are specifically developed for industrial applications to help customers enhance production efficiency, reduce costs, enhance security, and offer more reliable connectivity and better data analysis for real-time decision-making. These products are typically integrated in areas such as factory automation, logistics, infrastructure, and monitoring systems for healthcare. This results in more intelligent, efficient, economical, and safe operation.



### Wi-Fi 6E / Wi-Fi 7

#### AIW-100 Series

- Well-established standard
- High indoor network coverage
- High-speed connection
- Made for industrial applications



#### Throughput enhancement

Data rates are up to 5.8Gbps to fulfill most demands of 4K/8K video streaming and advanced medical image transfer via Wi-Fi. This enables multiple connections while also being cost-effective and efficient.



#### Latency improvement

New technologies are included like preamble puncturing introduced with Wi-Fi 7. Latency of less than 10ms can be achieved with a stable connection via Wi-Fi for factory automation and AGV.



#### Ready-to-go certificate

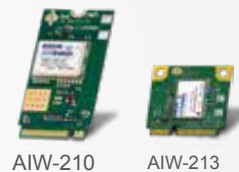
Universal certificates save time and effort on design.



### GNSS/GPS

#### AIW-200 Series

- Outdoor area with good coverage
- Ideal for hostile environments
- Multi-GNSS engine for GPS, GLONASS, Galileo, BeiDou, QZSS, and SBAS



#### Excellent precision

Exceptional sensitivity and acquisition times for L1 frequency



#### Dead reckoning function

Enables smooth navigation and tracking in shadowed areas



#### Industrial-grade wide temperature range

-40~85°C operating temp range



## Cellular Connectivity

### AIW-300 Series

- Wide spectrum efficiency
- High traffic capacity
- Fastest connection speeds
- Excellent longevity support



AIW-343

AIW-357



## Bluetooth 5.4

### AIW-400 Series

- Upward compatible with BT 5.4
- PaWR support for ESL applications
- Supports Bluetooth mesh



AIW-450



## Industrial Antenna Solution

### AIW-500 Series

- Fits perfectly with AIW module solutions
- No MOQ limit
- Design consultancy and testing service
- Waterproof option for critical environments



AIW-512

AIW-532



AIW-520

# Partner Collaboration and Wireless Design-In Services

AIW is revolutionizing IoT development with its Wireless Design-In Services, set to transform wireless connectivity for IoT devices. Through collaborations with strategic partners, testing is sped up and manufacturing is simplified. It comprises four parts: solution assessment, RF and antenna design, system integration, and certification acquisition. AIW is especially impactful in RF design, testing, and certification. There is a dedicated team to mitigate any potential issues, minimizing schedule disruptions and costs for customers in various verticals.

Qualcomm

Dev Singh

VP & GM of Industrial Enterprise & Building Automation  
Qualcomm Technologies, Inc.



We are excited to collaborate with Advantech in delivering cutting-edge Wi-Fi 7 and 5G solutions that empower the next generation of industrial applications. Our joint commitment to technological advancement fuels our anticipation for continued collaboration, driving innovative and competitive solutions to market.



NORDIC  
SEMICONDUCTOR

Bjorn Bob Brandal

VP of Sales and Marketing, APAC  
Nordic Semiconductor



Advantech offers a comprehensive set of products and services and is known for excellent support and follow-up to its customers. We're proud to partner and maintain a strong collaboration with a team with the same values as Nordic Semiconductor. Together, we will continue to advance technology and achieve next-level intelligent solutions with low power consumption and wireless excellence.

LITEPOINT

John Lukez

President  
LitePoint Corporation



Advantech and LitePoint are reshaping the IoT development landscape through their cutting-edge Wireless Design-in Service. By joining forces, the collaboration strengthens wireless design and validation capabilities, accelerates testing cycles, and simplifies manufacturing processes. This strategic cooperation represents a significant leap forward in IoT innovation, underscoring the unwavering commitment of both companies to delivering advanced and accessible wireless solutions.



**Leading**

Industrial Wireless Solution Provider



**Robust RD Capability**

for Design-In Service



**Strong Partnership**

for A+ Products & Speed to Market

**Antenna Customization Service**

- Requirement assessment, antenna placement evaluation
- Throughput optimization, radiation pattern and isolation testing

**Global Certification Service**

- Cost reduction via early assessment and wireless kit selection
- Pre-test and troubleshooting during the certification process



# Empower Electric Charging Stations

AIW 100 Wi-Fi & 500 Antenna Solutions



## Application Requirements

EV Chargers require wireless connectivity for timely firmware and status updates. Whether the platform is Linux or Android, OTA firmware upgrades, status reports, and remote control via apps are all essential to EV chargers.

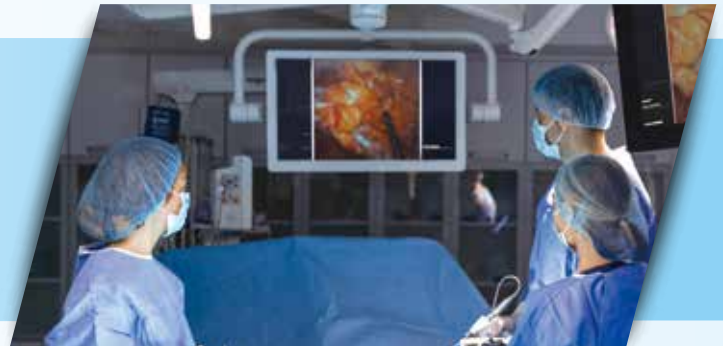
## Success Factors

- Multi-OS support including Android, Linux, and Windows
- Universal certification support for the global market
- IP66 waterproof antenna design for outdoor application



# Medical Endoscope

AIW 100 Wi-Fi & 500 Antenna Solutions

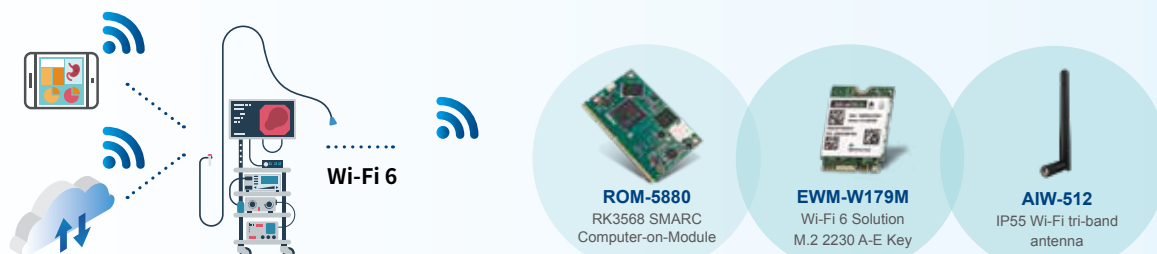


## Application Requirements

The most modern edge medical endoscopes are equipped with wireless functionality like Wi-Fi and BT. Through advanced wireless connectivity, data transmission for endoscopes can be realized without space and environmental limitations. Customers can also provide connectivity to other devices via softAP mode.

## Success Factors

- The driver integrates with Android 12 to speed up development time-to-market
- Ultra-high speed and extreme low latency of Wi-Fi 6 technology for real-time video streaming applications



# Smart Rail Monitoring and Dispatching System

AIW 300 Cellular & 500 Antenna Solutions



## Application Requirements

Smart rails optimize road traffic, enhance safety, and ensure punctual public transportation. AIW-357 is compatible with high-speed, low-latency communication networks for smart rail applications. Utilizing sensors and cameras, it enables video analysis, real-time monitoring, remote control, and predictive warnings, setting a 5G+ benchmark for smart rail transportation.

## Success Factors

- High speed and low-latency enables real-time monitoring
- Wide operating temperature supports outdoor and harsh environments



# Industrial Drones

AIW 200 GNSS & 500 Antenna Solutions

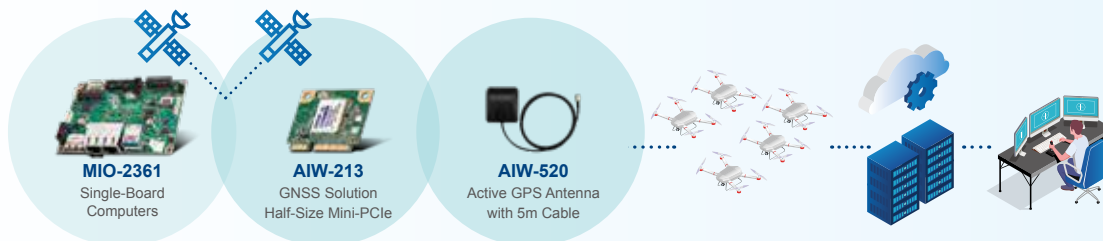


## Application Requirements

In sectors such as agriculture, defense, and smart cities, AIW-213 boosts industrial drone performance. With precise altitude accuracy and its dead reckoning feature, it can communicate with multiple satellites to obtain faster location updates. This ensures high efficiency and yield optimization in applications like smart agriculture.

## Success Factors

- Supports industrial operating temperatures (-40 ~ 85°C)
- Supports dead reckoning function



# Industrial Wireless Solutions

AIW 100 Series

## Wi-Fi and Bluetooth Combo



Model Name	AIW-162BS	EWM-W165M201E	AIW-170BQ	AIW-171HQ	EWM-W179M201E	EWM-W180H01E
Chipset	BCM43752	Intel AX210	WCN6856	WCN6856	RTL8852BE	RTL8822CU
Wireless Generation	Wi-Fi 6+BT 5.0	Wi-Fi 6E+BT 5.3	Wi-Fi 6E+BT 5.3	Wi-Fi 6E+BT 5.3	Wi-Fi 6+BT 5.2	Wi-Fi 5+ BT 5.0
Form Factor	M.2 2230 E-Key	M.2 2230 A+E Key	M.2 2230 E-Key	Half-Size Mini-PCle	M.2 2230 A+E Key	Half-Size Mini-PCle
Interface	Wi-Fi: PCIe BT: UART	Wi-Fi: PCIe BT: USB	Wi-Fi: PCIe BT: USB	Wi-Fi: PCIe BT: USB	Wi-Fi: PCIe BT: USB	Wi-Fi: USB BT: USB
Antenna Information	2 x MHF4 connectors	2 x MHF4 connectors	2 x MHF4 connectors	2 x MHF1 connectors	2 x MHF4 connectors	2 x MHF1 connectors
Advanced Security	WPA/WPA2/WPA3					WPA/WPA2
Operating Temperature Range	-40 ~ 85°C	0 ~ 70°C	-40 ~ 85°C		0 ~ 70°C	-20 ~ 70°C
OS Support*	Linux/Android	Windows/Linux on X86	Windows/Linux	Windows/Linux	Windows/Linux/Android	Windows/Linux/Android
Maximum Data Rate**	1200Mbps					866Mbps
Certification	FCC/CE/IC/TELEC	Multiple certificates authorized by Intel	FCC/CE/IC/TELEC/NCC/KC	FCC/CE/IC	Multiple certificates authorized by Realtek	FCC/CE/IC/TELEC
Recommended Antenna	AIW-512	AIW-511	AIW-512			

\* Some features are only supported in Windows 11 and Windows 7 is no longer on the ADV support list. Linux support depends on the kernel version.

\*\*Maximum data rate is based on the theoretical value of Wi-Fi technology.

## AIW 200 Series

### GPS / GNSS



Model Name	AIW-210	AIW-212	AIW-213
Part Number	AIW-210XU-001	AIW-212HU-001	AIW-213HU-001
Chipset	NEO-M9N	NEO-M9N	NEO-M9V
GPS Signal Type	L1	L1	L1
Form Factor	M.2 2242 B-Key	Half-Size Mini-PCle	Half-Size Mini-PCle
Signal Protocol	USB 2.0	USB 2.0	USB 2.0
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
RF Receiver Type	GPS module, multi-GNSS (GPS/BeiDou/Galileo/GLONASS/QZSS/SBAS)	GPS module, multi-GNSS (GPS/BeiDou/Galileo/GLONASS/QZSS/SBAS)	GPS module, multi-GNSS (GPS/BeiDou/Galileo/GLONASS/QZSS/SBAS)
GPS Acquisition	Cold Start: 24s, Hot Start: 2s, Aided Start: 2s	Cold Start: 24s, Hot Start: 2s, Aided Start: 2s	Cold Start: 24s, Hot Start: 2s, Aided Start: 3s
GPS Accuracy	1.5m CEP with SBAS assistance	1.5m CEP with SBAS assistance	1.5m CEP with SBAS assistance
GPS Sensitivity	Tracking & Navigation: -167 dBm Reacquisition: -160 dBm Cold Start: -148 dBm	Tracking & Navigation: -167 dBm Reacquisition: -160 dBm Cold Start: -148 dBm	Tracking & Navigation: -159 dBm Reacquisition: -158 dBm Cold Start: -147 dBm
Dead Reckoning	No	No	Yes
Antenna Information	1 x MHF1 connectors	1 x MHF1 connectors	1 x MHF1 connectors
Recommended Antenna	AIW-520	AIW-520	AIW-520

# Industrial Wireless Solutions

AIW 300 Series

4G LTE CAT6



**NEW**

Model Name	AIW-340
Part Number	AIW-340CQ-GI1
Chipset	Qualcomm SDX12
Radio Technology	LTE Cat.6 + GPS
Form Factor	M.2 3042 B-Key
SIM Slot	No
Signal Protocol	USB 3.1
Downlink/Uplink	600Mbps/150Mbps
Frequency Band	LTE FDD: Band 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 18, 19, 20, 25, 26, 28, 29, 32, 66, 71 LTE TDD: Band 38, 39, 40, 41, 42, 43, 48 WCDMA: Band 1, 2, 4, 5, 6, 8, 9, 19
Operating Temperature	Extended: -40°C ~ 85°C
Support Area	Global
Antenna Information	2 x MHF4 connectors
Recommended Antenna	AIW-531

4G LTE CAT4



Model Name	AIW-343		
Part Number	AIW-343FQ-N01	AIW-343FQ-E01	AIW-343FQ-J01
Chipset	Qualcomm MDM9X07	Qualcomm MDM9X07	Qualcomm MDM9X07
Radio Technology	LTE Cat.4 + GPS	LTE Cat.4 + GPS	LTE Cat.4 + GPS
Form Factor	Full-size Mini-PCIe	Full-size Mini-PCIe	Full-size Mini-PCIe
SIM Slot	Yes	Yes	Yes
Signal Protocol	USB 2.0	USB 2.0	USB 2.0
Downlink/Uplink	150Mbps/50Mbps	150Mbps/50Mbps	150Mbps/50Mbps
Frequency Band	4G: Band 2, 4, 5, 12, 13, 14, 66, 71 3G: Band 2, 4, 5	4G: Band 1, 3, 7, 8, 20, 28A 3G: Band 1, 3, 8 2G: Band 3, 8	4G: Band 1, 3, 5, 8, 9, 18, 19, 26, 28 3G: Band 1, 5, 6, 8, 19
Operating Temperature	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C
Support Area	NA	EU, TW	JP, Australia
Antenna Information	3 x MHF1 connectors	3 x MHF1 connectors	3 x MHF1 connectors
Recommended Antenna	AIW-531	AIW-531	AIW-531

# Industrial Wireless Solutions

## 4G LTE CAT4



Model Name	AIW-344		
Part Number	AIW-344FQ-N01	AIW-344FQ-E02	AIW-344FQ-J01
Chipset	Qualcomm MDM9X07	Qualcomm MDM9X07	Qualcomm MDM9X07
Radio Technology	LTE Cat.4 + GPS	LTE Cat.4 + GPS	LTE Cat.4 + GPS
Form Factor	Full-size Mini-PCIe	Full-size Mini-PCIe	Full-size Mini-PCIe
SIM Slot	No	No	No
Signal Protocol	USB 2.0	USB 2.0	USB 2.0
Downlink/Uplink	150Mbps/50Mbps	150Mbps/50Mbps	150Mbps/50Mbps
Frequency Band	LTE FDD: Band 2,4,5,12,13,17,66,71 WCDMA: Band 2,4,5	FDD-LTE: Band 1,3,5,7,8,20,28 TDD-LTE: Band 38,40,41 HSPA/UMTS: Band 1,5,8 GSM/GPRS/EDGE850/900/1800MHz	LTE FDD: band1,3,8,11,18, 19,21,26,28 LTE TDD: Band41 WCDMA/HSPA+: Band1,6,8,19
Operating Temperature	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C
Support Area	NA	EU, TW, Australia, Brazil	JP
Antenna Information	3 x MHF1 connectors	3 x MHF1 connectors	3 x MHF1 connectors
Recommended Antenna	AIW-531	AIW-531	AIW-531



Model Name	AIW-346	
Part Number	AIW-346FQ-N01	AIW-346FQ-N02
Chipset	Qualcomm MDM9X07	Qualcomm MDM9X07
Radio Technology	LTE Cat.4 + GPS	LTE Cat.4 + GPS
Form Factor	Full-size Mini-PCIe	M.2 3052 B-Key
SIM Slot	Yes	Yes
Signal Protocol	USB 2.0	USB 2.0
Downlink/Uplink	150Mbps/50Mbps	150Mbps/50Mbps
Frequency Band	LTE bands: 2/4/5/12/13/14/66/71 WCDMA bands: 2/4/5	LTE bands: 2/4/5/12/13/14/66/71 WCDMA bands: 2/4/5
Operating Temperature	-30 ~ 80°C	-30 ~ 80°C
Support Area	US	US
Antenna Information	3 x MHF1 connectors	3 x MHF1 connectors
Recommended Antenna	AIW-531	AIW-531

# Industrial Wireless Solutions

5G NR FR1



Model Name	AIW-356			
Part Number	AIW-356DQ-N01	AIW-356DQ-E01	AIW-356DQ-C01	AIW-356DQ-JK1
Chipset	Qualcomm SDX62	Qualcomm SDX62	Qualcomm SDX62	Qualcomm SDX62
Radio Technology	5G FR1 + GPS	5G FR1 + GPS	5G FR1 + GPS	5G FR1 + GPS
Form Factor	M.2 3052 B-Key	M.2 3052 B-Key	M.2 3052 B-Key	M.2 3052 B-Key
SIM Slot	No	No	No	No
Signal Protocol	USB 3.1	USB 3.1	USB 3.1	USB 3.1
Downlink/Uplink	Max DL peak rate 3.47 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 3.2 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 2.4 Gbps, Max UL peak rate 555 Mbps	Max DL peak rate 3.2 Gbps, Max UL peak rate 555 Mbps
Frequency Band	NSA: n2/5/12/25/30/41/66/71/77 SA: n2/5/12/14/25/30/41/48/66/70/71/77 TDD-LTE: Band 41/48/46 (LAA) FDD-LTE: Band 2/4/5/12/13/29/30/66/71	NSA: n1/3/5/7/8/20/28/38/40/77/78 SA: n1/3/5/7/8/20/28/38/40/41/75/76/77/78 TDD-LTE: Band 38/40/41/42/43 FDD-LTE: Band 1/3/5/7/8/20/28/32 WCDMA: Band 1/5/8	NSA: n41/78/79 SA: n1/28/41/78/79 TDD-LTE: Band 34/38/39/40/41 FDD-LTE: Band 1/3/5/8 WCDMA: Band 1/8	NSA: n1/3/28/41/77/78/79 SA: n1/3/7/8/28/41/77/78/79 TDD-LTE: Band 39/41/42 FDD-LTE: Band 1/3/5/7/8/18/19/26/28
Operating Temperature	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C	Extended: -40°C ~ 85°C
Support Area	NA	EU, Brazil	China	JP, South Korea
Antenna Information	4 x MHF4 connectors	4 x MHF4 connectors	4 x MHF4 connectors	4 x MHF4 connectors
Recommended Antenna	AIW-532	AIW-532	AIW-532	AIW-532



Model Name	AIW-357	
Part Number	AIW-357DK-G1P	AIW-357DK-G2U
Chipset	MediaTek T700	MediaTek T700
Radio Technology	5G FR1 + GPS	5G FR1 + GPS
Form Factor	M.2 3052 B-Key	M.2 3052 B-Key
SIM Slot	No	No
Signal Protocol	PCIe	USB 3.1
Downlink/Uplink	Max DL peak rate 2.97 Gbps, Max UL peak rate 1150 Mbps	Max DL peak rate 2.97 Gbps, Max UL peak rate 1150 Mbps
Frequency Band	NSA: n1/2/3/5/8/20/28/38/41/66/71/77/78/79 SA: n1/2/3/5/7/8/20/25/28/30/38/40/41/48/66/71/77/78/79 LTE: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/34/38/39/40/41/42/43/46/48/66/71 WCDMA: Band 1/2/4/5/8	NSA: n1/2/3/5/8/20/28/38/41/66/71/77/78/79 SA: n1/2/3/5/7/8/20/25/28/30/38/40/41/48/66/71/77/78/79 LTE: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/34/38/39/40/41/42/43/46/48/66/71 WCDMA: Band 1/2/4/5/8
Operating Temperature	Extended: -30 ~ 80°C	Extended: -30 ~ 80°C
Support Area	US, EU, TW, JP	US, EU, TW, JP
Antenna Information	4 x MHF4 connectors	4 x MHF4 connectors
Recommended Antenna	AIW-533	AIW-533

# Industrial Wireless Solutions

AIW 500 Series

Antennas



Model Name	AIW-512	AIW-513	AIW-520
Antenna Type	Dipole	Dipole	Patch
Frequency	2.4-2.5GHz, 5.15-5.85GHz 5.925-7.125GHz	2.4-2.5GHz, 5.15-5.85GHz 5.925-7.125GHz	L1: 1575.42MHz B2: 1561.098MHz GNSS: 1602MHz
Antenna Peak Gain	2.87dBi @2.4GHz 3.11dBi @5GHz 3.22dBi @6GHz	2.06dBi @2.4-2.5GHz, 4.16dBi @5.15-5.85GHz, 4.61dBi @6-7.125GHz	Antenna: 3dBicLNA: 28+/- 2db
Length (cm)	11.1 x 1.0	23 x 2.2	2.5*2.5*0.4wire length: 500 cm
Connector	RP-SMA male	RP-SMA male	SMA male
IP Level	IP55	IP65	-
Operating Temperature	-10 ~ 55°C	-40 ~ 70°C	-40 ~ 85°C



Model Name	AIW-532	AIW-533	AIW-535
Antenna Type	Dipole	Dipole	Dipole
Frequency	699~960MHz, 1710~2700MHz, 3300~5000MHz, 5150~5850MHz	0.6-6GHz	699~960MHz, 1710~2700MHz, 3300~5000MHz, 5150~5850MHz
Antenna Peak Gain	1.78dBi @699~960MHz, 3.27dBi @1710~2700MHz, 0.18dBi @3300~5000MHz, 4.02dBi @5150~5850MHz	2dBi @617~960MHz, 2.6dBi @1450~2700MHz, 3.5dBi @3300~5000MHz, 3.7dBi @5150~5850MHz	1.49dBi @699~960MHz, 2.62dBi @1710~2700MHz, 3.59dBi @3300~5000MHz, 3.83dBi @5150~5850MHz
Length (cm)	13 x 2.5	13.4 x 1.9	23 x 2.2
Connector	SMA male	SMA male	SMA male
IP Level	-	-	IP65
Operating Temperature	-25 ~ 70°C	-30 ~ 65°C	-40 ~ 70°C



## Regional Service and Customization Centers

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**Netherlands** Eindhoven  
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Irvine 1-949-420-2500  
Milpitas 1-408-519-3898  
Ottawa 1-815-433-5100

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