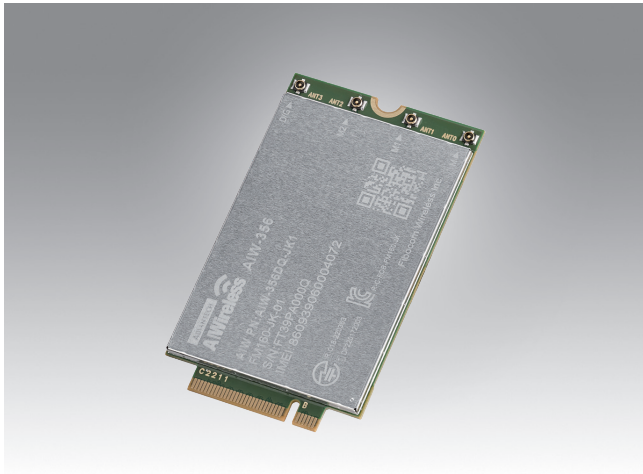


AIW-356

5G NR Sub 6+GNSS WWAN module, M.2 3052 Key-B form factor



Features

- 5G NR SUB6/LTE FDD/LTE TDD/WCDMA systems
- Max UL peak rate of 900Mbps
- Max DL peak rate 3.2 Gbps NR Sub6 EN-DC
- UL Max support 2 MIMO
- DL Max support 4 MIMO
- Normal operating temperature: -30 ~ 75 °C (-22 ~ 167 °F)
- Storage temperature: -40 ~ 85 °C (-40 ~ 185 °F)
- Extend operating temperature: -40 ~ 85 °C (-40 ~ 185 °F)
- GNSS, GPS/GLONASS/Galileo/Beidou/QZSS

Specifications

Main Chipset	QUALCOMM SDX62								
Antenna	4pcs X 5G Antenna, or 3pcs X 5G Antenna + 1pcs X GNSS antenna								
Band	<table border="0"> <tr> <td>AIW-356DQ-N01</td> <td>AIW-356DQ-E01</td> <td>AIW-356DQ-JK1</td> <td>AIW-356DQ-C01</td> </tr> <tr> <td> <ul style="list-style-type: none"> NSA: n2/5/12/25/30/41/66/71/77 SA: n2/5/12/14/25/30/41/48/66/70/71/77 LTE TDD: Band 41/48/46 (LAA) LTE FDD: Band 2/4/5/12/13/29/30/66/71 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS </td> <td> <ul style="list-style-type: none"> 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 LTE TDD: Band 38/40/41/42/43 LTE FDD: Band 1/3/5/7/8/20/28/32 WCDMA: Band 1/5/8 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS </td> <td> <ul style="list-style-type: none"> NSA: n1/3/28/41/77/78/79 SA: n1/3/7/8/28/41/77/78/79 LTE TDD: Band 39/41/42 LTE FDD: Band 1/3/5/7/8/18/19/26/28 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS </td> <td> <ul style="list-style-type: none"> NSA: n41/78/79 SA: n1/28/41/78/79 TE TDD: Band 34/38/39/40/41 LTE FDD: Band 1/3/5/8 WCDMA: Band 1/8 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS </td> </tr> </table>	AIW-356DQ-N01	AIW-356DQ-E01	AIW-356DQ-JK1	AIW-356DQ-C01	<ul style="list-style-type: none"> NSA: n2/5/12/25/30/41/66/71/77 SA: n2/5/12/14/25/30/41/48/66/70/71/77 LTE TDD: Band 41/48/46 (LAA) LTE FDD: Band 2/4/5/12/13/29/30/66/71 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS 	<ul style="list-style-type: none"> 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 LTE TDD: Band 38/40/41/42/43 LTE FDD: Band 1/3/5/7/8/20/28/32 WCDMA: Band 1/5/8 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS 	<ul style="list-style-type: none"> NSA: n1/3/28/41/77/78/79 SA: n1/3/7/8/28/41/77/78/79 LTE TDD: Band 39/41/42 LTE FDD: Band 1/3/5/7/8/18/19/26/28 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS 	<ul style="list-style-type: none"> NSA: n41/78/79 SA: n1/28/41/78/79 TE TDD: Band 34/38/39/40/41 LTE FDD: Band 1/3/5/8 WCDMA: Band 1/8 GNSS: support GPS, GLONASS, Galileo, BDS, QZSS
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Data Throughput	Max DL peak rate 3.2 Gbps NR Sub6 EN-DC Max UL peak rate of 900Mbps								
Interface	USB 3.1								
Operation Voltage	3.135 ~ 4.4V, Typical 3.8V								
Power Consumption	2.5A								
O.S Supported	Windows 10, Linux (Ubuntu 20.04)								
Temperature Ranges	Normal operating temperature: -30 ~ 75 °C (-22 ~ 167 °F) Storage temperature: -40 ~ 85 °C (-40 ~ 185 °F) Extend operating temperature: -40 ~ 85 °C (-40 ~ 185 °F)								
Dimensions (L x W x H)	30 x 52 x 2.3 mm/1.18 x 2.04 x .09 in (B-key)								

Ordering Information

Part No.	Product Description
AIW-356 DQ-N01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for US
AIW-356 DQ-E01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for EU
AIW-356 DQ-JK1	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for Japan, for South Korea
AIW-356 DQ-C01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for China

Suggested Antennas and Cables

Part No.	Specifications
1751000360-01	GNSS antenna, 1575 MHz, Antenna Gain 4.5 dBi, RHCP, SMA male, L=2000 mm/78.74 in
1751000361-01	GNSS antenna, 1575 MHz, Antenna Gain 4.5 dBi, RHCP, SMA male, L=5000 mm/196.85 in
1750008569-01	Coaxial Cable, 300 mm/11.8 in, SMA (F) to MFH4
1750009372-01	5G(Sub-6G)/LTE/WCDMA full band dipole antenna, antenna, 167 mm/6.57 in