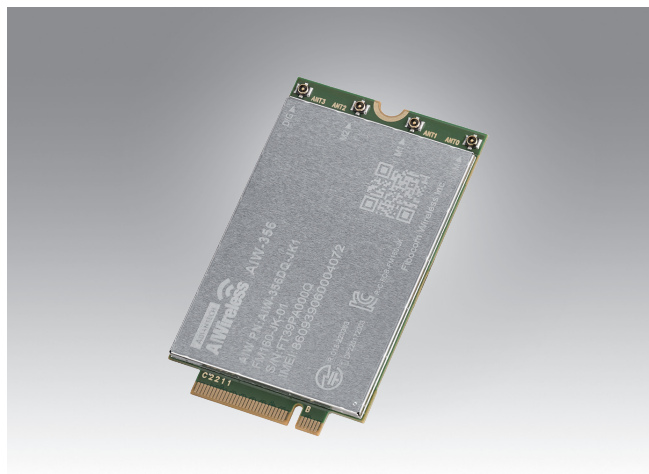


# AIW-356

## 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"> <li>NSA: n2/5/12/25/30/41/66/71/77</li> <li>SA: n2/5/12/14/25/30/41/48/66/70/71/77</li> <li>LTE TDD: Band 41/48/46 (LAA)</li> <li>LTE FDD: Band 2/4/5/12/13/14/29/30/66/71</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>NSA: n1/3/5/7/8/20/28/38/40/77/78</li> <li>SA: n1/3/5/7/8/20/28/38/40/41/75/76/77/78</li> <li>LTE TDD: Band 38/40/41/42/43</li> <li>LTE FDD: Band 1/3/5/7/8/20/28/32</li> <li>WCDMA: Band 1/5/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>NSA: n1/3/28/41/77/78/79</li> <li>SA: n1/3/7/8/28/41/77/78/79</li> <li>LTE TDD: Band 39/41/42</li> <li>LTE FDD: Band 1/3/5/7/8/18/19/26/28</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>NSA: n41/78/79</li> <li>SA: n1/28/41/78/79</li> <li>TE TDD: Band 34/38/39/40/41</li> <li>LTE FDD: Band 1/3/5/8</li> <li>WCDMA: Band 1/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul> </td> </tr> </table>	AIW-356DQ-N01	AIW-356DQ-E01	AIW-356DQ-JK1	AIW-356DQ-C01	<ul style="list-style-type: none"> <li>NSA: n2/5/12/25/30/41/66/71/77</li> <li>SA: n2/5/12/14/25/30/41/48/66/70/71/77</li> <li>LTE TDD: Band 41/48/46 (LAA)</li> <li>LTE FDD: Band 2/4/5/12/13/14/29/30/66/71</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n1/3/5/7/8/20/28/38/40/77/78</li> <li>SA: n1/3/5/7/8/20/28/38/40/41/75/76/77/78</li> <li>LTE TDD: Band 38/40/41/42/43</li> <li>LTE FDD: Band 1/3/5/7/8/20/28/32</li> <li>WCDMA: Band 1/5/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n1/3/28/41/77/78/79</li> <li>SA: n1/3/7/8/28/41/77/78/79</li> <li>LTE TDD: Band 39/41/42</li> <li>LTE FDD: Band 1/3/5/7/8/18/19/26/28</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n41/78/79</li> <li>SA: n1/28/41/78/79</li> <li>TE TDD: Band 34/38/39/40/41</li> <li>LTE FDD: Band 1/3/5/8</li> <li>WCDMA: Band 1/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>
AIW-356DQ-N01	AIW-356DQ-E01	AIW-356DQ-JK1	AIW-356DQ-C01						
<ul style="list-style-type: none"> <li>NSA: n2/5/12/25/30/41/66/71/77</li> <li>SA: n2/5/12/14/25/30/41/48/66/70/71/77</li> <li>LTE TDD: Band 41/48/46 (LAA)</li> <li>LTE FDD: Band 2/4/5/12/13/14/29/30/66/71</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n1/3/5/7/8/20/28/38/40/77/78</li> <li>SA: n1/3/5/7/8/20/28/38/40/41/75/76/77/78</li> <li>LTE TDD: Band 38/40/41/42/43</li> <li>LTE FDD: Band 1/3/5/7/8/20/28/32</li> <li>WCDMA: Band 1/5/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n1/3/28/41/77/78/79</li> <li>SA: n1/3/7/8/28/41/77/78/79</li> <li>LTE TDD: Band 39/41/42</li> <li>LTE FDD: Band 1/3/5/7/8/18/19/26/28</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>	<ul style="list-style-type: none"> <li>NSA: n41/78/79</li> <li>SA: n1/28/41/78/79</li> <li>TE TDD: Band 34/38/39/40/41</li> <li>LTE FDD: Band 1/3/5/8</li> <li>WCDMA: Band 1/8</li> <li>GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</li> </ul>						
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, for Australia
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
1750009372-01	5G(Sub-6G)/LTE/WCDMA full band dipole antenna, antenna, 167 mm/6.57 in
1751000649-01	Coaxial Cable, 10cm, SMA female to IPEX4
1751000625-01	Coaxial Cable, 15cm, SMA female to IPEX4
1751000633-01	Coaxial Cable, 20cm, SMA female to IPEX4
1751000624-01	Coaxial Cable, 25cm, SMA female to IPEX4
1751000623-01	Coaxial Cable, 30cm, SMA female to IPEX4