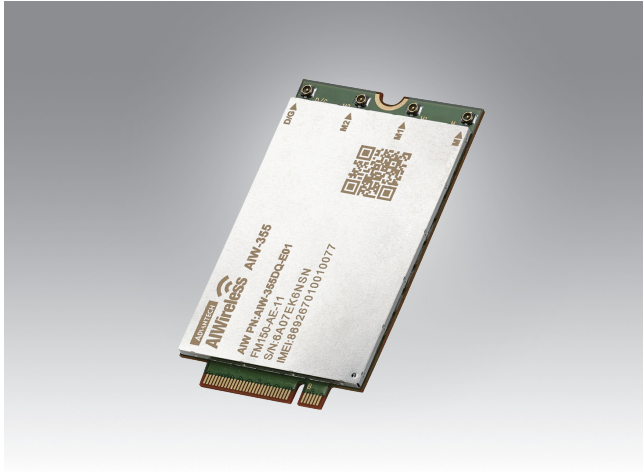


AIW-355

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 2.5 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

Introduction

Advantech AIW-355 is a highly integrated 5G WWAN module that uses a M.2 form-factor interface. It supports 5G NR SUB6/LTE FDD/LTE TDD/WCDMA systems and can be applied to most mobile carriers' cellular networks.

Specifications

Main Chipset	QUALCOMM SDX55						
Antenna	4pcs X 5G Antenna, or 3pcs X 5G Antenna + 1pcs X GNSS antenna						
Band	<table border="0"><tr><td>AIW-355DQ-E01</td><td>AIW-355DQ-C01</td><td>AIW-355DQ-N01</td></tr><tr><td><ul style="list-style-type: none">NR: n1,n3,n5,n8,n20, n28, n38,n41, n77, n78, n79LTE FDD: Band 1,3,5,7,8,19,20,28LTE TDD: Band 38,40,41,42,43WCDMA: B1, 3, 5, 8,19GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</td><td><ul style="list-style-type: none">NR: n1, n28, n41, n77, n78, n79LTE FDD: Band 1,2,3,5,7,8LTE TDD: Band 34,39,40,41WCDMA: B1, 2, 5, 8GNSS: support GPS, GLONASS, Galileo, BDS, QZSS</td><td><ul style="list-style-type: none">NR: n2, n5, n7, n12, n14, n25, n41, n48, n66, n71, n78LTE FDD: Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 29, 30, 66, 71LTE TDD: Band 41, 42, 43, 48] LAA Band 46 Receiver onlyWCDMA: B1, 2, 4, 5, 8GNSS: Support GPS, GLONASS, BDS, Galileo, QZSS</td></tr></table>	AIW-355DQ-E01	AIW-355DQ-C01	AIW-355DQ-N01	<ul style="list-style-type: none">NR: n1,n3,n5,n8,n20, n28, n38,n41, n77, n78, n79LTE FDD: Band 1,3,5,7,8,19,20,28LTE TDD: Band 38,40,41,42,43WCDMA: B1, 3, 5, 8,19GNSS: support GPS, GLONASS, Galileo, BDS, QZSS	<ul style="list-style-type: none">NR: n1, n28, n41, n77, n78, n79LTE FDD: Band 1,2,3,5,7,8LTE TDD: Band 34,39,40,41WCDMA: B1, 2, 5, 8GNSS: support GPS, GLONASS, Galileo, BDS, QZSS	<ul style="list-style-type: none">NR: n2, n5, n7, n12, n14, n25, n41, n48, n66, n71, n78LTE FDD: Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 29, 30, 66, 71LTE TDD: Band 41, 42, 43, 48] LAA Band 46 Receiver onlyWCDMA: B1, 2, 4, 5, 8GNSS: Support GPS, GLONASS, BDS, Galileo, QZSS
AIW-355DQ-E01	AIW-355DQ-C01	AIW-355DQ-N01					
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Data Throughput	Max DL peak rate 2.5 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-355 DQ-E01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for EU
AIW-355 DQ-N01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for US
AIW-355 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