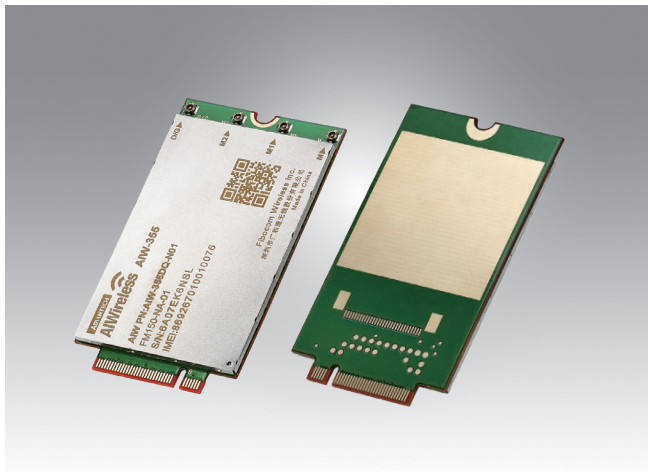


AIW-355

Highly-integrated 5G WWAN module with M.2 3052 Key-B interface



Features

- 5G NR SUB6/LTE FDD/LTE TDD/WCDMA systems
- Max UL peak rate of 525Mbps
- Max DL peak rate 4.1 Gbps DL 4 x 4 NR Sub6 EN-DC
- UL Max support 2 MIMO
- DL Max support 4 MIMO
- Operating temperature:
Normal operating temperature: -30 ~ 75 °C (-22 ~ 167 °F)
- GNSS, GPS/GLONASS/Beidou/Galileo

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	4 x WWAN antenna		
Band	AIW-355DQ-E01 ▪ NR: n1,n3,n5,n8,n20, n28, n38,n41, n77, n78, n79 ▪ LTE FDD: Band 1,3,5,7,8,19,20,28 ▪ LTE TDD: Band 38,40,41,42,43 ▪ WCDMA: B1, 3, 5, 8,19 ▪ GNSS: support GPS, GLONASS, Galileo, BDS, QZSS	AIW-355DQ-C01 ▪ NR: n1, n28, n41, n77, n78, n79 ▪ LTE FDD: Band 1,2,3,5,7,8 ▪ LTE TDD: Band 34,39,40,41 ▪ WCDMA: B1, 2, 5, 8 ▪ GNSS: support GPS, GLONASS, Galileo, BDS, QZSS	AIW-355DQ-N01 ▪ NR: n2, n5, n7, n12, n14, n25, n41, n48, n66, n71, n78 ▪ LTE FDD: Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 29, 30, 66, 71 ▪ LTE TDD: Band 41, 42, 43, 48] LAA Band 46 Receiver only ▪ WCDMA: B1, 2, 4, 5, 8 ▪ GNSS: Support GPS, GLONASS, BDS, Galileo, QZSS
Data Throughput	Max DL peak rate 4.1 Gbps DL 4 x 4 NR Sub6 EN-DC Max UL peak rate 525Mbps		
Interface	USB 3.0/3.1		
Operation Voltage	3.135 ~ 4.4V, Typical 3.8V		
Power Consumption	TBD		
O.S Supported	Windows 10, Linux (Ubuntu 20.04)		
Temperature Ranges	Normal operating temperature: -30 ~ 75 °C (-22 ~ 167 °F) (3GPP compliant, with appropriate thermal design)		
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
1750007991-01	GPS antenna 1575 MHz, Antenna 3 dBi, (Zenith) L1: 1575.42 MHz, B2: 1561.098 MHz, GNSS: 1602 MHz antenna 4.94 x 3.93 x 1.49 cm/1.94 x 1.54 x 0.58 in, RHCP and SMA male
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