

IB17M-W



5G M.2 Broadband Modem Card

Highest performance ultra high-speed global connectivity, FR1



OVERVIEW

- 5G NR FR1 standalone (SA) and non-standalone (NSA) Sub-6 – 3GPP Release 17
- 200MHz, 3xCA, 20L LTE
- E-UTRAN new radio - dual connectivity (EN-DC) support
- 4x4 DL MIMO, 2x2 UL MIMO
- LTE carrier aggregation (CA) support
- 5G NR SA downlink carrier aggregation (CA)
- Qualcomm SDX 72-0 platform
- 2 SIM interfaces
- Dimensions : 30 x 52 x 2.3mm (single sided)
- Supply voltage: Nominal 3.3V (±5%)
- Operation temperature: -40°C to +85°C



Developed in Berlin, Germany
Produced in own European facilities

GENERAL FEATURES

- Data only
- Bandwidth:
 - NSA: Up to 4.9Gbps DL, up to 0.55Gbps UL
 - SA: Up to 4.1Gbps DL, up to 0.90Gbps UL 2XCA
- Integrated L1+L5 GNSS support (GPS, GLONASS, Beidou, Galileo)
- Memory industrial grade: 4Gbit RAM and up to 4Gbit FLASH

INTERFACES

- 4 antenna ports:
 - Cellular: 2 x TRX , 2 x RX
 - GNSS: Integrated
- Data interface: USB 3.1 Gen 2
- PCIe (available Q2/2025)

RF BANDS

- 5G:
 - n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29(DL), n30, n38, n40, n41, n48, n66, n67, n70, n71, n75, n76, n77, n78, n79, n91, n92, n93, n94
- 4G:
 - B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B53, B66, B67, B68, B70, B71, B75, B76

CERTIFICATIONS & APPROVALS

- RoHS mandates compliant, WEEE compliant
- GCF, PTCRB, RED, FCC, TELEC, NCC, RCM
- Regulatory and MNO approvals
 - EU (Vodafone, EE/BT, DT, Orange, TEF)
 - US (AT&T, Verizon, T-Mobile)
 - ASIA (KDDI, DCM, SBM, Telstra, Optus)