

Quectel EM06 Series

LTE Cat 6	EM06-A
Region/Operator	North America/ Mexico
Dimensions (mm)	42.0 × 30.0 × 2.3
Temperature Range	
Operation Temperature	-30°C ~ +70°C
Extended Temperature	-40°C ~ +85°C
Frequency Bands	
LTE-FDD	B2/B4/B5/B7/B12/B13/B25/B26/B29 ^② /B30/B66
LTE-TDD	B41
2xCA	B2+B2/B5/B12/B13/B29 ^② ; B4+B4/B5/B12/B13/B29 ^② ; B7+B5/B7/B12/B26; B25+B5/B12/B25/B26; B30+B5/B12/B29 ^② ; B66+B5/B12/B13/B29 ^② /B66; B41+B41
WCDMA	B2/B4/B5
GNSS	GPS/GLONASS/BeiDou (Compass)/Galileo/QZSS (Optional)
Certifications	
Carrier	North America: Verizon/AT&T/Sprint
Regulatory	Global: GCF North America: FCC/PTCRB Canada: IC
Others	RoHS/WHQL
Data Transmission	
LTE-FDD Data Rate (Mbps)	300 (DL)/50 (UL)
LTE-TDD Data Rate (Mbps)	226 (DL)/28 (UL)
DC-HSPA+ Data Rate (Mbps)	42 (DL)/5.76 (UL)
WCDMA Data Rate (Kbps)	384 (DL)/384 (UL)
Interfaces	
(U)SIM	x2
I2C	x1
PCM (Digital Audio)	x1
Antenna Tuner Control* (ANTCTL)	x4
USB 2.0	x1
W_DISABLE1#	x1
RESET#	x1
WAKE_ON_WAN#	x1
WWAN_LED#	x1
Antennas	x3 (Main, Diversity and GNSS Antennas)
Voice	
Speech Codec Modes	AMR/AMR-WB
Echo Arithmetic	Echo Cancellation/Noise Suppression
VoLTE	CSFB and VoLTE (Voice over LTE) (Optional)
Enhanced Features	
MIMO (2x2, 4x2, DL)	●
Digital Audio and VoLTE (Voice over LTE)	Optional
(U)SIM Card Detection	●
DTMF	●
Dual SIM Single Standby*	●
DFOTA	●
GNSS	●
Drivers	
USB Driver	Windows 7/8/8.1/10, Linux 2.6~5.4, Android 4.x/5.x/6.x/7.x/9.x
GNSS Driver	Android 4.x/5.x/6.x/7.x/8.x/9.x
RIL Driver	Android 4.x/5.x/6.x/7.x/8.x/9.x
NDIS Driver	Windows 7/8/8.1/10
MBIM Driver	Windows 8/8.1/10, Linux 3.18~5.4
GobiNet Driver	Linux 2.6~5.4
QMI_WWAN Driver	Linux 3.4~5.4
Electrical Features	
Supply Voltage Range	3.135V~4.4V, 3.7V Typ.
Power Consumption	50µA @Power off 3.8mA @Sleep Typ. 21.3mA @Idle

Notes:

1. * means Under Development.

2. ● means supported.

① Excluding Japan and CMCC.

② LTE-FDD B29 and B32 support receiving only, and are only for secondary component carrier in 2xCA.