



MC400 Modem



SUPPORTED PRODUCTS

- AER3100 Series
- AER2200
- AER2100 Series
- AER1600 Series
- COR IBR1700
- COR IBR1100 Series with Dual-Modem Dock
- COR IBR900 Series with COR Extensibility Dock
- COR IBR600B/C Series with COR Extensibility Dock
- ARC CBA850

MC400-600M-C-AT for use on FirstNet – LTE-Advanced/HSPA+ for US AT&T

- Technology: Category 12 LTE-Advanced Pro, DC-HSPA+
- Downlink Rates: LTE 600 Mbps, DC-HSPA+ 42.2 Mbps
- Uplink Rates: LTE 150 Mbps, DC-HSPA+ 5.76 Mbps
- Frequency Bands: 2, 4, 5, 12, 14, 29, 30, 46, 66
- Carrier Aggregation:
 - CA_2A-2A-12A, CA_2A-29A-30A, CA_5B CA_2A-46A, CA_5A-30A-66A, CA_29A-30A-66A, CA_2A-4A-5A, CA_2A-66A-66A, CA_5A-46A, CA_2A-66C, CA_4A-4A-5A, CA_5A-66A-66A
 - CA_2A-4A-12A, CA_2C, CA_4A-4A-12A, CA_5A-66C, CA_66A-66B, CA_2A-4A-29A, CA_4A-4A-30A, CA_66A-66C, CA_2A-5A-30A, CA_4A-5A-30A, CA_12A-30A-66A,
 - CA_2A-5A-66A, CA_4A-12A-30A, CA_2A-12A-30A, CA_4A-29A-30A, CA_2A-2A-5A, CA_4A-46A
- Fallback: WCDMA/DC-HSPA+ (42/5.76 Mbps): Bands 2, 5
- Power: LTE 23 dBm \pm 1, HSPA+ 23 dBm \pm 1
- Antennas: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- SMS: SMS support
- Industry Standards & Certs: FCC, PTCRB, AT&T
- Modem Part Number: MC400-600M-C-AT

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MC400LP6 – LTE-Advanced/HSPA+ for North America & Europe

- Technology: Category 6 LTE-Advanced, DC-HSPA+
- Downlink Rates: LTE 300 Mbps, DC-HSPA+ 42.2 Mbps
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps
- Frequency Bands:
 - Bands 1-5, 7, 8, 12, 13, 17, 20, 25, 26, 29, 30, 41
 - Verizon: 2, 4, 5, 13 (XLTE support w/carrier aggregation)
 - AT&T: 2, 4, 5, 12/17, 29, 30
 - Sprint: 25, 26, 41 (LTE Plus Support)
 - T-Mobile: 2, 4, 12 (T-Mobile Wideband LTE Support)
- Carrier Aggregation:
 - 1+ 8
 - 2+ 2/5/12 (17 w/MFBI)/13/29
 - 3+ 7/20
 - 4+ 4/5/12 (17 w/MFBI)/13/29
 - 5+ 2/4/30
 - 7+ 3/7/20
 - 8+ 1
 - 12 (17 w/MFBI) + 2/4/30

- 13+ 2/4
- 20+ 3/7
- 30+ 5/12 (17 w/MFBI)
- 41+ 41
- Fallback: WCDMA/DC-HSPA+ (42/5.76 Mbps): Bands 1, 2, 3, 4, 5, 8
- Power: LTE 23 dBm \pm 1, HSPA+ 23 dBm \pm 1
- Antennas: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- SMS: SMS support
- Industry Standards & Certs: CE, FCC, GCF-CC, IC, PTCRB, AT&T, Sprint, Verizon
- Modem Part Number: MC400LP6

MC400LP5 – LTE Advanced/HSPA+ for Asia Pacific and Middle East

- Technology: FDD/TDD (Category 6) LTE Advanced, DC-HSPA+
- Downlink Rates: LTE 300 Mbps, DC-HSPA+ 42.2 Mbps
- Uplink Rates: LTE 50 Mbps, DC-HSPA+ 5.76 Mbps
- Frequency Bands:
 - LTE Bands: 1, 3, 5, 7, 8, 18, 19, 21, 28, 38, 39, 40, 41
 - TD-SCDMA 39
- Carrier Aggregation:
 - 1 + 8/18/19/21
 - 3 + 5/7/19/28
 - 5 + 3/7
 - 7 + 3/5/7/28
 - 8 + 1
 - 18 + 1
 - 19 + 1/3/21
 - 21 + 1/19
 - 28 + 3/7
 - 38 + 38
 - 39 + 39
 - 40 + 40
 - 41 + 41
- Fallback: WCDMA/DC-HSPA+ (42/5.76 Mbps): Bands 1, 5, 6, 8, 9, 19
- Power: LTE: 23 dBm \pm 1; DC-HSPA+: 23 dBm \pm 1
- Antennas: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- SMS: SMS support
- Industry Standards & Certs: CE, GCF-CC, RC Australia, others pending
- Modem Part Number: MC400LP5

MC400LP4 – 4G LTE/HSPA+ for North America

- Technology: Category 4 LTE, DC-HSPA+
- Downlink Rates: LTE 150 Mbps, DC-HSPA+ 42.2 Mbps
- Uplink Rates: LTE 50 Mbps, DC-HSPA+ 5.76 Mbps

- Frequency Bands:
 - LTE: Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz)
 - DC-HSPA+/UMTS Rel. 9, Cat 24: Bands 5 and 2 (850/1900 MHz)
- Power: LTE 23 dBm +/- 1, DC-HSPA+ 23 dBm +/- 1
- Antennas: two SMA male (plug), finger tighten only (maximum torque spec is 7 kgfcm)
- Industry Standards & Certs: FCC, WiFi Alliance (AER1600 only), Verizon, AT&T, PTCRB, carrier Private Networks, IC
- SIM: two 2FF slots (secured)
- Modem Part Number: MC400LP4

MC400LP3-EU – 4G LTE/HSPA+ for Europe

- Technology: LTE, HSPA+
- Downlink Rates: LTE 100 Mbps, HSPA+ 21.1 Mbps (theoretical)
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps (theoretical)
- Frequency Bands:
 - LTE Band 1 (2100 MHz), Band 3 (1800 MHz), Band 7 (2600 MHz), Band 8 (900 MHz), Band 20 (800 MHz)
 - HSPA+/UMTS (800/850/900/1900/2100 MHz)
 - GSM/GPRS/EDGE Quad-Band (850/900/1800/1900 MHz)
- Power: LTE Band 1/3/8/20: 23 dBm ±1; LTE Band 7: 22 dBm ±1; HSPA+: 23 dBm ±1 (typical conducted)
- Antennas: two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- Industry Standards & Certs: CE, GCF-CC
- Modem Part Number: MC400LP3

MC400LPE-AT – 4G LTE/HSPA+/EVDO for AT&T

- Technology: LTE, HSPA+, EVDO Rev A
- Downlink Rates: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- Frequency Bands:
 - LTE Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
 - HSPA+/UMTS (850/900/1900/2100 MHz, AWS)
 - GSM/GPRS/EDGE (850/900/1800/1900 MHz)
 - CDMA EVDO Rev A/1xRTT (800/1900 MHz)
- Power: LTE: 23 dBm ±1; HSPA+: 23 dBm ±1; EVDO: 24 dBm +0.5/-1 (typical conducted)
- Antennas: two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- Industry Standards & Certs: PTCRB, FCC, IC, AT&T
- Modem Part Number: MC400LPE

MC400LPE-GN – 4G LTE/HSPA+/EVDO (generic – for use on T-Mobile and US Cellular in the U.S. and Rogers, Bell, & TELUS in Canada)

- Technology: LTE, HSPA+, EVDO Rev A
- Downlink Rates: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)

- Frequency Bands:
 - LTE Band 2 (1900 MHz), Band 4 (AWS), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
 - HSPA+/UMTS (850/900/1900/2100 MHz, AWS)
 - GSM/GPRS/EDGE (850/900/1800/1900 MHz)
 - CDMA EVDO Rev A/1xRTT (800/1900 MHz)
- Power: LTE: 23 dBm ±1; HSPA+: 23 dBm ±1; EVDO: 24 dBm +0.5/-1 (typical conducted)
- Antennas: two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- Industry Standards & Certs: PTCRB, FCC, IC
- Modem Part Number: MC400LPE

MC400LPE-SP – 4G LTE/HSPA+/EVDO for Sprint

- Technology: LTE, HSPA+, EVDO Rev A
- Downlink Rates: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- Frequency Bands:
 - LTE Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
 - HSPA+/UMTS (850/900/1900/2100 MHz, AWS)
 - GSM/GPRS/EDGE (850/900/1800/1900 MHz)
 - CDMA EVDO Rev A/1xRTT (800/1900 MHz)
- Power: LTE: 23 dBm ±1; HSPA+: 23 dBm ±1; EVDO: 24 dBm +0.5/-1 (typical conducted)
- Antennas: two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- Industry Standards & Certs: FCC, Sprint
- Modem Part Number: MC400LPE

MC400LPE-VZ – 4G LTE/HSPA+/EVDO for Verizon

- Technology: LTE, HSPA+, EVDO Rev A
- Downlink Rates: LTE 100 Mbps, HSPA+ 21.1 Mbps, EVDO 3.1 Mbps (theoretical)
- Uplink Rates: LTE 50 Mbps, HSPA+ 5.76 Mbps, EVDO 1.8 Mbps (theoretical)
- Frequency Bands:
 - LTE Band 2 (1900 MHz), Band 4 – AWS (1700/2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz)
 - HSPA+/UMTS (850/900/1900/2100 MHz, AWS)
 - GSM/GPRS/EDGE (850/900/1800/1900 MHz)
 - CDMA EVDO Rev A/1xRTT (800/1900 MHz)
- Power: LTE: 23 dBm ±1; HSPA+: 23 dBm ±1; EVDO: 24 dBm +0.5/-1 (typical conducted)
- Antennas: two SMA male (plug), 1 dBi (LTE), 2 dBi (Cellular/PCS) gain; finger tighten only (maximum torque spec is 7 kgf/cm²)
- GPS: active GPS support
- Industry Standards & Certs: FCC, Verizon
- Modem Part Number: MC400LPE