

Spec of RealiteQ iCex

(Preliminary)

Model	ICX-T245-LTE-CAT4-XX (XX=EU, US, LA, CN)	ICX-T255-LTE-NBM1
Parameter		
Mobile module	4G (LTE) – Cat 4 up to 150 Mbps 3G – Up to 42 Mbps 2G – Up to 236.8 kbps	NB-IOT LTE-CAT M1 2G
Frequency	EU (EMEA, India, Thailand) model: 4G (LTE-FDD): B1, B3, B7, B8, B20, B28A 4G (LTE-TDD): B38, B40, B41 3G: B1, B8 2G: B3, B8 US (North America) model: 4G (LTE-FDD): B2, B4, B5, B12, B13, B14, B66, B71 3G: B2, B4, B5 LA (Latin America, AUS, NZ) model: 4G (LTE-FDD): B1, B21, B3, B4, B5, B7, B8, B28 4G (LTE-TDD): B40 3G: B1, B2, B5, B8 2G: B2, B3, B5, B8 CN (China) model: 4G (LTE-FDD): B1, B3 4G (LTE-TDD): B38, B39, B40, B41 3G (TDSCDMA): B34, B39 3G (WCDMA): B1 3G (CDMA 1x/EVDO): BC0 2G: B3, B8	Global: 4G (LTE-FDD): B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B28 US: 4G (LTE-TDD): B39 (for Cat M1 only) 2G: B2, B3, B5, B8
SIM card	2 SIM slots; (Mini SIM – 2FF), 1.8V/3V, Double stacked SIM tray, Auto switch, Auto APN	2 SIM slots; (Mini SIM – 2FF), 1.8V/3V, Double stacked SIM tray, Auto switch, Auto APN
LAN	1 x LAN port 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards	1 x LAN port 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards
Firewall	Configurable	Configurable
Serial ports	1 x RS232: Terminal block connector: TX, RX, RTS, CTS 1 x RS485: Terminal block connector: D+, D-, R+, R- (2 or 4 wire interface) Both ports can be used simultaneously	1 x RS232: Terminal block connector: TX, RX, RTS, CTS 1 x RS485: Terminal block connector: D+, D-, R+, R- (2 or 4 wire interface) Both ports can be used simultaneously
Baud rates	9600 - 38400	9600 - 38400
Data bits	8	8
Stop bits	1	1
Parity	None, Even, Odd	None, Even, Odd

Model	ICX-T245-LTE-CAT4-XX (XX=EU, US, LA, CN)	ICX-T255-LTE-NBIOT
Communication protocols supported	Modbus RTU Modbus TCP Siemens ProfiNet Ethernet/IP (for selected AB models) SNPX Other protocols may be implemented by upon request Device supports 3 different protocols simultaneously	Modbus RTU Modbus TCP Siemens ProfiNet Ethernet/IP (for selected AB models) SNPX Other protocols may be implemented by upon request Device supports 3 different protocols simultaneously
Location tracking	GPS, GLONASS, BeiDou, Galileo and QZSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Digital I/O	3 x configurable: Inputs: 0-6V = logic low; 8-30V = logic high Outputs: Open collector; max 300 mA@30Vdc	3 x configurable: Inputs: 0-6V = logic low; 8-30V = logic high Outputs: Open collector; max 300 mA@30Vdc
Analog input	1 x analog input (0–30V)	1 x analog input (0–30V)
Status LEDs	2G/3G/4G indication, Power, ETH status, 3 x signal strength	2G/NB/M1 indication, Power, ETH status, 3 x signal strength
CPU	Qualcomm QCA9531, MIPS 24kc, 650 MHz	Qualcomm QCA9531, MIPS 24kc, 650 MHz
RAM	64 MB, DDR2	64 MB, DDR2
Flash memory	16MB SPI Flash (4 MB available for user)	16MB SPI Flash (4 MB available for user)
Power supply:	9–30 VDC, reverse polarity protection, surge protection +/-1 kV 50 µs max	9–30 VDC, reverse polarity protection, surge protection +/-1 kV 50 µs max
Power consumption	Idle: <1.2 W, Max: <5 W	Idle: <1.2 W, Max: <5 W
Operating temperature	-40 C to 75 C Built in device temperature sensor	-40 C to 75 C Built in device temperature sensor
Storage temperature	-40 to 75 C	-40 to 75 C
Operating humidity	10% to 90% non-condensing	10% to 90% non-condensing
Casing material	Aluminum housing	Aluminum housing
Dimensions	74 x 83 x 25 mm (L x W x H)	74 x 83 x 25 mm (L x W x H)
Installation	35 mm DIN rail	35 mm DIN rail
Weight	165 g	165 g
Approvals	CE; UKCA; RoHS; FCC; RCM; IC; EAC; CCC; Ukrainian UCRF	CE; UKCA; RoHS; FCC; RCM; IC; EAC; CCC; Ukrainian UCRF