

## Fort Digital 4G Modem Data Sheet

Parameter	Specification / Description	Typical Values / Bands
Module Name	Quectel E Series (LTE Category 1)	Quectel E Series (LTE Category 1)
Dimensions	Physical size of module	Approx. 32.0 × 29.0 × 2.4 mm
Weight	Typical module weight	About 4.1 g
Form Factor	LCC package	144-pin LCC
LTE Category	Defines max data rate for LTE	Category 1
Supported Bands (LTE)	LTE-FDD Bands	Band 1,3,7,8,28,38,40
Fallback	3G / 2G fallback if LTE is not available	UMTS/HSPA+ (B1/B8), GSM/GPRS/EDGE
Data Rates (LTE)	Downlink / Uplink	Up to ~10 Mbps (DL) / 5 Mbps (UL)
Data Rates (UMTS/HSPA+)	Downlink / Uplink	Up to ~21 Mbps (DL) / 5.76 Mbps (UL)
Operating Voltage	Power supply range	3.3 V to 4.3 V
Power Consumption	Typical idle / sleep / active	Varies by network & firmware
Operating Temperature	Ambient temperature for normal operation	-35°C to +75°C
Storage Temperature	Temperature range for non-operational storage	-40°C to +90°C
Interfaces	Available physical / logical interfaces	USB 2.0 High Speed, Serial RS232, Serial RS485
SIM Interface	Supports external SIM card	1.8 V / 3.0 V
Antenna Interface	RF connection	Main LTE antenna & Rx-diversity antenna
Certifications	Regional compliance (may vary by region)	CE-RED, GCF, RCM, etc.
Firmware Upgrade	Methods of updating module firmware	USB DFU / FOTA
Audio Interface	PCM / I2S interface support	2-wire or 4-wire PCM
AT Command Set	3GPP TS 27.007 and 27.005 + Quectel proprietary	Supported for control & configuration
GPIO	General Purpose I/O pins	Up to 8 (depending on firmware)
IP Protocols	Network protocols supported	TCP/IP, UDP, PPP, FTP/HTTP, MQTT (optional)
SMS / MMS	Messaging capabilities	Text/PDU mode for SMS
Security Features	Encryption, secure boot, etc.	TLS/SSL, secure data channels
Reference Design	Typical hardware reference	Available in Hardware Design manual
Mounting	PCB surface mount	LCC package, reflow soldering
RoHS Compliance	Hazardous substance restrictions	RoHS & REACH compliant
Technical Documents	Core documentation from Quectel	Hardware Design, AT Command Manual, EVB Kit
Casing Size	51mm width x 80mm x 16mm, antenna petruide out 10mm, bracket petruide out from the side of casing 11.5mm width x 35.3mm height, antenna lenght 107.7mm	
SIM Card	Normal Size	
SIM Card Protection	2 Screws Cover	