

# SE150A4

LTE Cat 4 150/50  
 Wi-Fi 802.11 a/b/g/n  
 Bluetooth® Low Energy 4.1



## Product Description

The SE150A4 series is Telit's first generation of smart modules with Android that supports LTE Cat 4, Wi-Fi and Bluetooth® connectivity, and an embedded GNSS receiver in one package.

Powered by the Qualcomm® quad-core ARM® Cortex®-A53 64-bit processor with built-in Adreno™ 308 GPU, the SE150A4 modules are ideal for industrial and consumer applications requiring high data rates, multimedia functions and edge computing capabilities. They provide interfaces to easily connect to displays, cameras and various sensors and come with high-performance application processing and graphical processing power to boost the next generation of smart IoT devices requiring multimedia capabilities. Android allows easy, flexible and streamlined application development and opens access to the biggest software ecosystem for enhanced innovation.

A rich set of interfaces, including but not limited to LCM, camera, touch screen, microphone, headset, speaker, SDIO 3.0, USB 2.0, UART, SPI and I2C, make these modules perfect for a wide range of IoT applications.

These use cases include:

- Mobile point-of-sale (mPOS), smart cash registers and vending machines
- Smart alarm panels
- Security surveillance cameras and home automation security systems
- Smart home gateways
- Smart robots
- Industrial personal digital assistants (PDA)
- Handheld PCs and tablets
- Police and law enforcement equipment
- Telematics cameras
- Digital video recorders (DVR)
- In-car video streaming and entertainment systems

SE150A4 series modules deliver maximum data rates of up to 150 Mbps downlink and 50 Mbps uplink over the LTE network and support Wi-Fi communication in compliance with IEEE 802.11a/b/g/n standards and

Bluetooth® Low Energy 4.1. They also embed a multi-constellation and high-sensitivity GNSS (GPS, BeiDou, GLONASS and Galileo) receiver for precise positioning. The compact LCC+LGA 40.5 x 40.5 mm form factor allows easy integration in portable devices. With the functionality and integrated resources in these compact modules, developers can easily and quickly develop user-friendly, touch-screen-equipped, IoT-enabled devices.

## Key Benefits

- Pre-certified processing power, rich multimedia experience and reliable wireless connectivity in one package for fast time to market
- Android for easy application development
- Exceptional application and system performance based on the quad-core A53 @1.53 GHz 64-bit processor
- Enhanced mobile rendering APIs for image and video applications via Adreno 308 GPU
- Powered by two Qualcomm Hexagon™ QDSP6 v56 @691 MHz
- Supports up to 13 MP camera
- Supports recording and playback of 1080p video at 30 FPS
- Multi-mode 4G/3G/2G cellular radio for wide-area network coverage
- Wi-Fi and Bluetooth® connectivity for short-range communications
- Onboard multi-constellation GNSS positioning receive

## Variants

The SE150A4 includes three variants:

- The SE150A4-NA for North America offers wide bandsupport, including AT&T FirstNet Band 14 and T-Mobile U.S. specific Bands 66 and 71.
- The SE150A4-EU for Europe and the rest of the world includes support for Band 28 and fallback to legacy 3G and 2G technologies

AVAILABLE FOR

[North America](#)

[Europe](#)



# SE150A4

	SE150A4-NA	SE150A4-EU
Market	North America (AT&T, Verizon, T-Mobile U.S.)	EU and other regions
LTE-FDD	Bands 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 66, 71	Bands 1, 3, 5, 7, 8, 20, 28
LTE-TDD	Band 41	Bands 38, 40, 41
WCDMA	Bands 2, 4, 5	Bands 1, 5, 8
GSM/GPRS/Edge	-	Bands 3, 8

## Product Features

- LTE-FDD Cat 4
- Rx diversity and MIMO DL 2 x 2
- Single Rx option
- VoLTE support
- Wi-Fi IEEE 802.11a/b/g/n
- Bluetooth® Low Energy 4.1
- Simultaneous support of GPS, GLONASS, BeiDou and Galileo
- Android 10 (Q) OS

## Hardware and Electrical Specifications

- Dimensions: 40.5 x 40.5 mm
- LCC 146 pin + LGA 64 pin
- USB 2.0
- UART
- SPI
- I2C
- LCM
- Camera (4-lane + 2-lane CSI)
- Touch screen
- Microphone
- Headset
- Speaker
- SDIO 3.0
- Battery charge management
- GPIOs
- RTC
- 2x 1.8 V/3 V SIM (UIM) interfaces with dual-SIM dual-standby (DSDS) support
- Cellular main antenna and Rx diversity antenna pads, GNSS antenna pad
- Temperature range: -30°C to +75° C
- REACH and RoHS compliant
- Output power
  - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
  - Nominal: 3.8 V dc
  - Range: 3.5-4.4 V dc

## Data Throughput

### LTE Cat 4

- Uplink up to 50 Mbps (FDD) and 30 Mbps (TDD)
- Downlink up to 150 Mbps (FDD) and 130 Mbps (TDD)

## Approvals

- FCC/ISED, PTCRB/GCF (SE150A4-NA)
- RED/GCF (SE150A4-EU)

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