

Product Brief

Type 1SE End Device

Integrated cellular end device

Ultra-small, highly integrated

Certified End Device with antenna connection for ease of integration with several different types of applications.

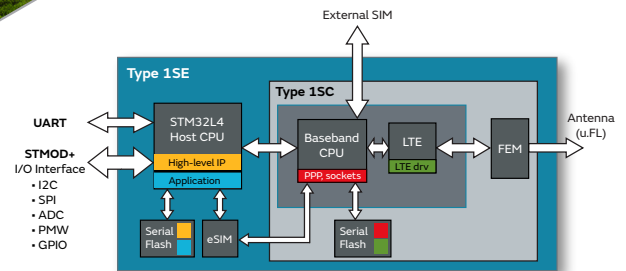
Features

- LTE Cat M1 - 23 dBm
- NB-IoT (NB1) Rel. 13
- 1MB on-board serial flash
- Package: LGA
- STM32L 462RE/Cortex M4 w/512KB Flash and 160 KB SRAM
- SIM card: internal eSIM (WLCSP) preloaded with Truphone profile
- Antenna configurations: U.FL antenna connection
- 3GPP eDRX and PSM modes
- Low power consumption enables up to 10 years of battery life
 - Hibernation current: 3uA
 - eDRX current: <50uA @ 8 hyperframes
 - PSM current: dormant window configurable
- Global Carrier Certifications: GCF and PTCRB
- Worldwide operation with Truphone



Benefits

- Certified as a host device for easy integration with several different types of applications
 - Quicker time to market; no additional carrier or regulatory certification
 - Less development time and costs for developer/device manufacturer in need of LTE Cat M1 connectivity
 - eSIM included in certification
- Build/Develop applications with the use of ST's vast set of software modules
- Availability of ST's Community and Development Forums



Actual size



Product Name	LBAD0ZZ1SE
Connectivity	3GPP Release 13/optimized for LTE Class 3 output power (+23dBm)
Universal LTE (LB &MB)	Low-band: B5/B8/B12/B13/B14 (CatM only)/B17/B18/B19/B20/B26/B28 Mid-band: B1/B2/B3/B4/B25
Voltage Input	3.3V
Antenna	Off board multi-band antenna
Dimensions	15.4 x 18.0 x 2.5mm (max.)
Peripheral I/F	ADC, GPIOs, I2C, JTAG, PWM, SPI, UART
Operating Temperature	-40°C to 85°C



In collaboration with  

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