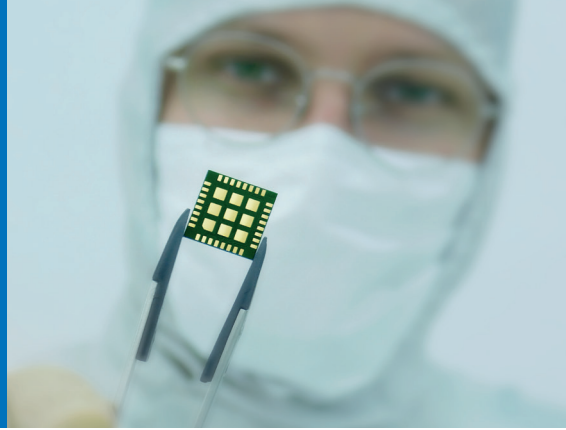


iMCP - HTLRBL32L

System-in-package

Highly compact and low-power wireless communication device featuring LoRa® and Bluetooth®.



The iMCP HTLRBL32L system-in-package enables easy integration and prototyping of long and short range IoT solutions.

The combination of ST Microelectronics BlueNRG SoC (ARM Cortex M0+ with Bluetooth Low Energy radio) and Semtech SX1262 LoRa® radio transceiver delivers outstanding performance at a minimum power consumption, enabling years-long battery life applications.

Accessible MCU and internal memory, and a full range of interfaces for analog and digital peripherals provide high configurability and flexibility for IoT applications.

The secure element ensures authentication and data management services to a local or remote host for high-level security.

The iMCP HTLRBL32L is ready for multi-region LoRaWAN® applications, and device commissioning, wireless firmware update and mesh networking capabilities using Bluetooth® Low Energy 5.2.



Short and long range connectivity



Secure element embedded



Easy integration and prototyping



LoRaWAN® multi-region ready



Accessible MCU and internal memory

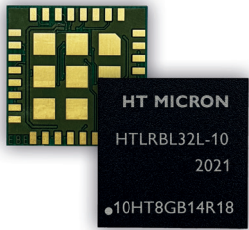


Full range of peripheral interfaces

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KEY FEATURES

Part number	HTLRBL32L-00
Dimensions / Package	13x13x1.1 mm LGA – 32 pins
LoRa® Transceiver	Semtech SX1262
MCU with integrated Bluetooth® LE Transceiver	STMicroelectronics BlueNRG-355VC
Operation zones	EU863-870, US902-928, AU915-928, AS923, R920-923, IN865-867, RU864-870
Memory	256 KB flash (for app code and stack)
GPIO	20 pins
Communication interfaces	1x USART, 1x LPUART, 1x I2C, 1x SPI, 1x I2S
ADC	5x (12 bits)
Input voltage	2.7 ~ 3.6 V
LoRa® TX output power consumption	+20.5 dBm 130 mA
LoRa® RX sensitivity level consumption	-137 dBm 6.6 mA
Bluetooth® TX output power consumption	+6 dBm 6.4 mA
Bluetooth® RX sensitivity level consumption	-93 dBm @ 1 Mbps 6.5 mA
Embedded secure element	STSAFE-A110



Access technical
documentation
on **GitHub!**
github.com/htmicon



HT Micron provides advanced semiconductor products. The portfolio includes memories for computers, mobile phones and smart TVs, as well as System-in-Package connectivity solutions for the Internet of Things. HT Micron is a Brazilian company, having as the main shareholder the South Korean group HANA Micron, and is based in the city of São Leopoldo, RS, in Brazil.