



Features

- » MCU — ARM Cortex M4 (STM32L496 with 512Mbit flash)
- » Secure Element support (STSAFE) Optional
- » Water proof design
- » Flexible assembly
- » Clamshell enclosure
- » JTAG and USB Programmable
- » Expandable memory: SD Card Holder
- » Cellular ready: SIM card holder

iENBL Flex LPWAN DevKit: The IoT Development Accelerator

iENBL — Flex DevKit provides a tool to quickly develop new IoT applications demanding LPWAN connectivity and test them in the real world. Flex LPWAN DevKit is the paper to “Sketch” and prove your LPWAN IoT ideas.

Dimension

Length	Width	Thickness	Weight
97 mm	65 mm	26 mm	98 g

Connectivity

Version 1	Version 2
LoRa US-915/EU-868/CN-470 MHz Versions	LTE Cat-M
Flex LoRaWAN 1.02	NB_IoT
SigFox (868 MHz)	2G
Versions 1 and 2	
GNSS (GPS GLONAS GALILEO BeiDou)	
WiFi 802.11 b/g/n (2.4 GHz)	
BLE 4.2	
RS-232/RS-485/CAN	

Environmental requirements

Operating Temperature	0oC to +35oC
Storage Temperature	-20oC to +60oC — 1 month -20oC to +45oC — 3 months
Humidity	85% Non-condensing

Power and Battery specification

Output voltage	Single output: 5.0 V, 2.0 Amps, 10 W
Material	Fireproof material, ABS
Weight	50g or less
Certificate	CE/FCC/IC
Other	Over-load, Over-voltage, Over-heated, over-current & short circuit protection
Charge interface	Micro USB (not provided)
Battery Capacity	1260 mAh

Provided Software

Application Programming Interface Description

C Examples

Instructions to install and configure a Programming IDE based on TrueStudio

Data interface to Flex Smart Nexus

Sensors

Accelerometer	ST Microelectronics LIS2DH12
Gyro + Accelerometer	ST Microelectronics LSM6DSL
Temperature	
Humidity	ST Microelectronics HTS221
Pressure	ST Microelectronics LPS22HB
Light Sensor	Maxim Integrated MAX44009EDT+T
Magnetic switch	TI DRV5032FADMR
Microphone	ST Microelectronics MP34DT01

Actuators

Push Buttons	x2
RGB LED	x1
Charging indicator LED	Orange/green
Fault indicator LED	Red
Buzzer	86dB@10 cm

Certification and Regulatory



Unauthorized disclosure of this information outside of Flex is strictly prohibited.

Visit us on:   

For more information, please visit flex.com or follow us on Twitter @flexltd

Flex is a leading end-to-end supply chain solutions company that delivers design, engineering, manufacturing, and logistics services to a range of industries and end-markets, including data networking, telecom, enterprise computing and storage, industrial, capital equipment, appliances, automation, medical, automotive, aerospace and defense, energy, mobile, computing, and other electronic product categories. Flex is an industry leader that helps its customers design, build, ship, and service their products through an unparalleled network of facilities in more than 30 countries and across four continents.

Copyright © 2019, Flex. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Flex.

ENG-DSS-1-001-00 V1.0

