

**NEW**

# HyperPulse™ Developer Kit

## IoT Development Kit for Myriota's HyperPulse™ 5G NTN Connectivity

**SKU**

MHPDTK01

**CATEGORY**

Evaluation &amp; Development

**CONNECTIVITY**

Myriota HyperPulse™ 5G NTN

### PRODUCT OVERVIEW

Designed to enable rapid Proof of Concept deployments and testing of Myriota's 5G NTN connectivity service, the HyperPulse™ Developer Kit provides a real-world, hands-on opportunity to experience the platform and validate its use for your next IoT solution.

### KEY FEATURES

- Development platform using a Nordic nRF9151 Feather Board
- Supplied with a Myriota NTN SIM
- Weather proof and deployable outdoors with a rugged IP67-rated, UV-resistant enclosure
- Fully integrated solution with internal NTN and GNSS antenna and rechargeable battery
- Easy debugging and programming with a single USB-C port
- Multiple sensor and interface integration options for rapid proof-of-concept development
- Supplied with a pre-programmed example application for quick initial deployment testing
- Access to the Myriota HyperPulse™ Firmware Library to allow custom firmware development using NCS (Nordic Connect SDK) environment
- Rich set of sample applications including Serial AT Modem, Temperature and Battery Monitor to kick-start your evaluation journey



**Global 5G NTN  
Satellite Connectivity**



**Battery powered**



**Weather proof &  
deployable outdoors**



**Easy sensor  
integration**

# TECHNICAL SPECIFICATION

## Mechanical

Operating Temperature	-30°C to +70°C [-22°F to 158°F]
IP Rating	IP67
Dimensions	130mm L x 110mm W (with gland) x 37mm H

## Onboard MCU

Model	Nordic nRF9151
-------	----------------

## HyperPulse™ Transmit & Receive

Transmit frequency	1626.5 MHz - 1660.5 MHz (3GPP n255)
Receive frequency	1525 MHz - 1559 MHz (3GPP n255)
Max TX output power (EIRP)	25.5dBm

## Interfaces

Headers	1 x Expansion header 1 x DFRobot Gravity interface connector 1 x SparkFun Qwiic interface connector 1 x mikroBUS Click interface header 1 x JST PH 2-pin battery input
Interfaces on the expansion header	1x Digital I/O 1x I2C 1x UART 1x SPI

## Power Supply

Battery	Type: LiPo Operating range: 2.8-5.5V Current/power rating: Able to support at least 2W of power Battery capacity: > 500mAh A LiPo rechargeable battery is included in the DK
USB-C	Operating range: 5V ± 0.2V Current requirements: >= 500mA

## Sim

Physical SIM card slot	1x Nano SIM (4FF)
------------------------	-------------------

### Onboard Temperature Sensor

Measurement range	-30°C to +70°C (-22°F to 158°F)
Accuracy	± 2°C

### Warranty

Manufacturer's Warranty	Two-year manufacturer's warranty
-------------------------	----------------------------------

