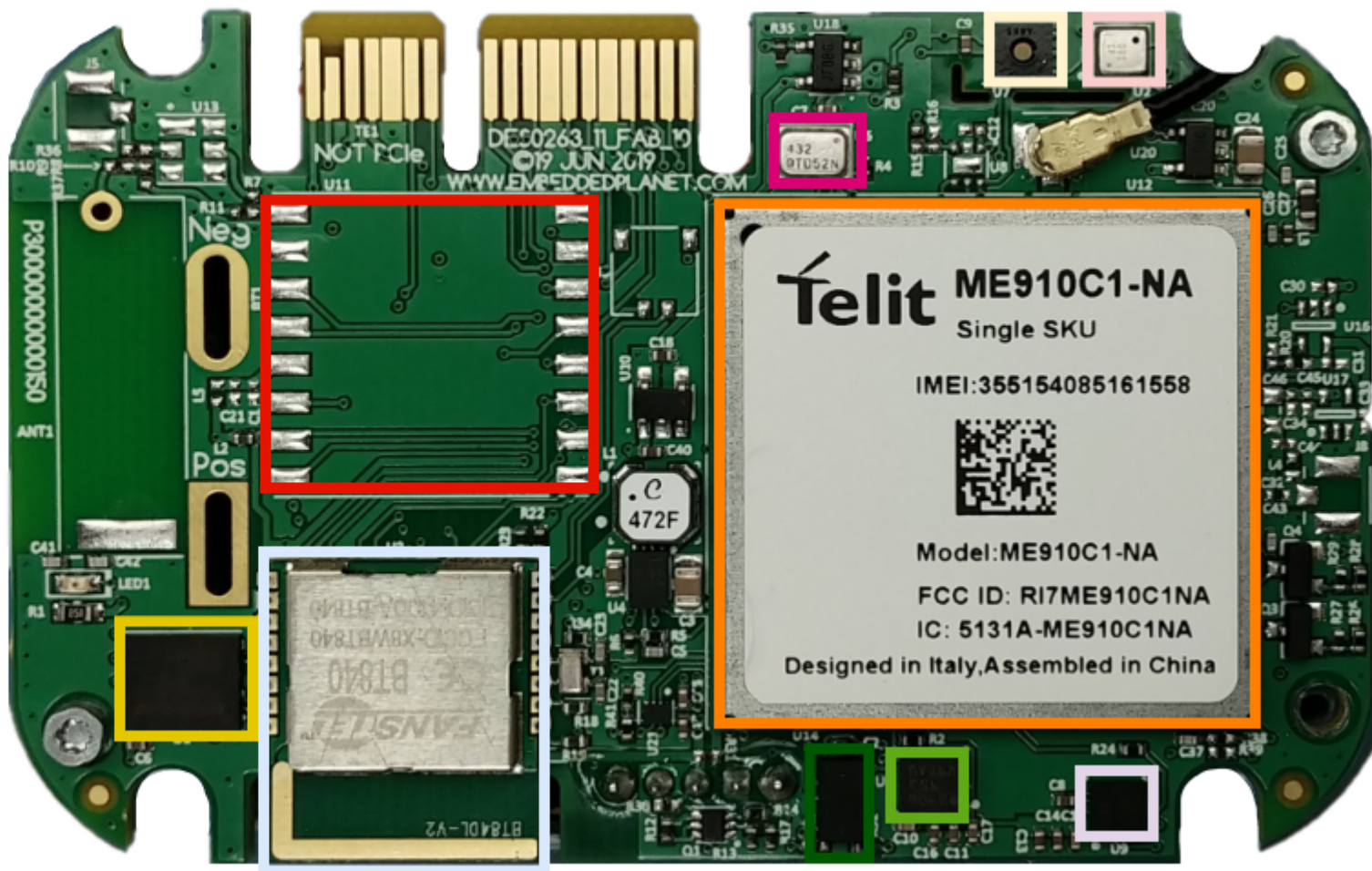
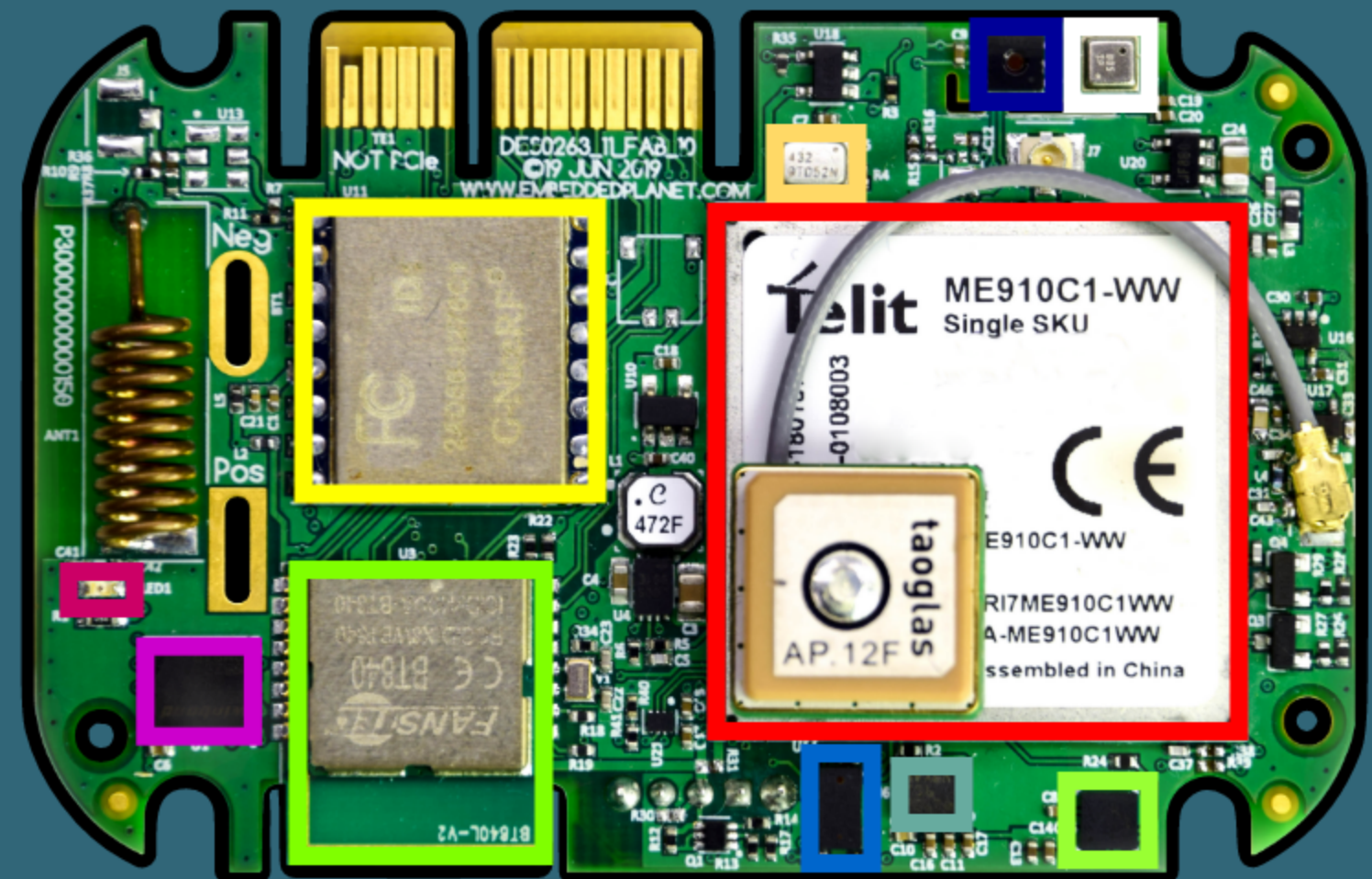


Cellular Module		me910
MCU controller board		bt840
temp/humidity sensor		si7021
temp/humidity/air quality/pressure sensor		bme680
gyroscope and accelerometer		icm20602
gyroscope, accelerometer, and magnetometer		lsm9ds1
time-of-flight sensor		vl53l0x
microphone		ics-43432
LoRa module		niceRF
QSPI NOR flash		25q32jviq



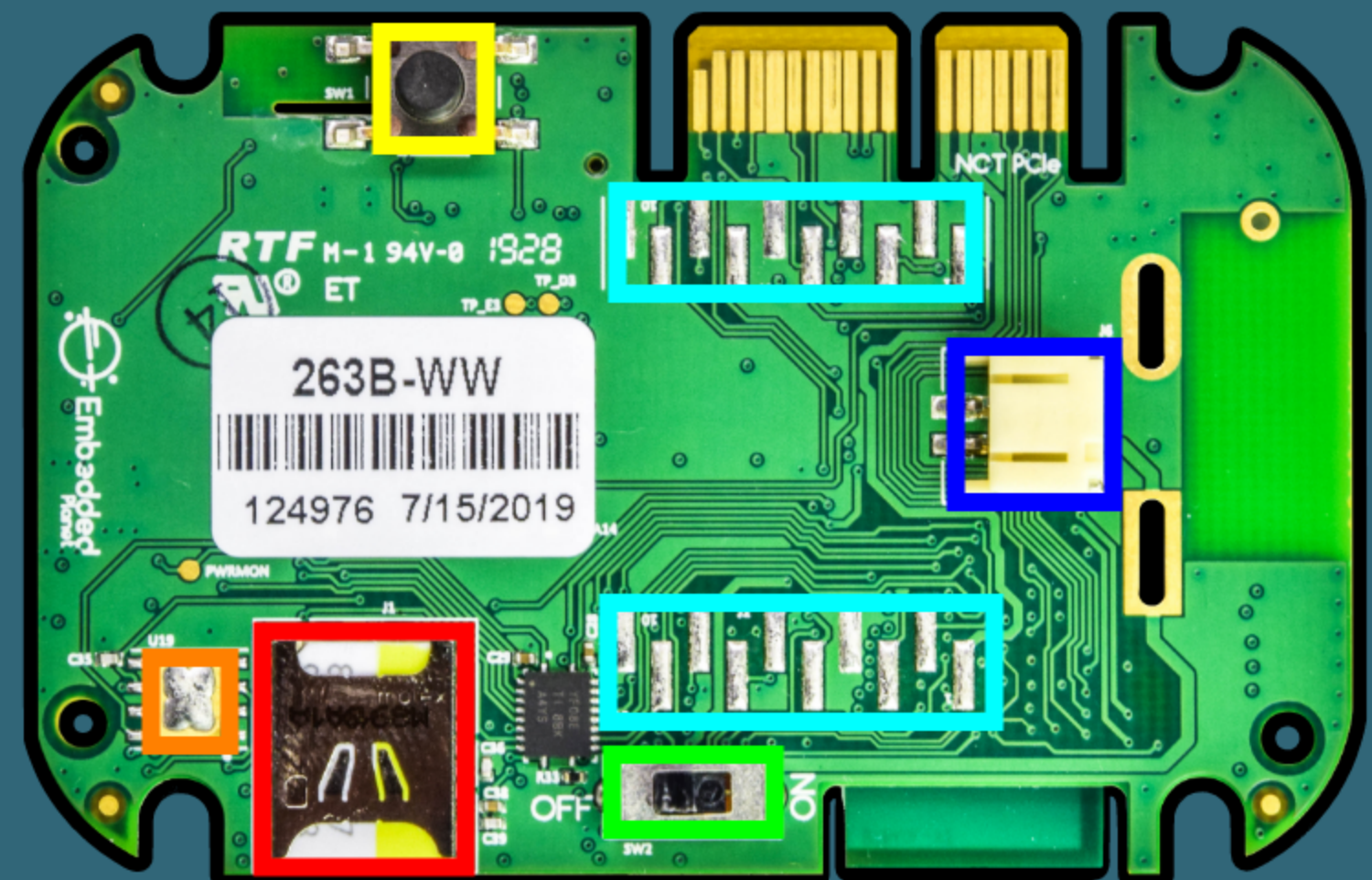
Top

Component	Function	COLOR
Telit ME910C1-WW	Cat-M1 / NB-IoT / GNSS	Red
TDK ICM-20602	Accelerometer - Gyro	Orange
NiceRF Lora1276	LoRa - 802.15.4 - <Gig	Yellow
BT840	MCU - BT5 - 802.15.4 - NFC	Light Green
BOSCH BME680	Temp - Hum - Pres - Air Q	White
Si7021	Temp - Humidity	Cyan
ST VL53L0X	Range Finding (ToF)	Blue
ST LSM9DS1	Accel - Gyro - Mag	Dark Blue
TDK ICS-43432	Microphone	Purple
Winbond	4MB QSPI NOR Flash	Magenta
RED LED	Indicator	Red



Bottom

Component	Function	COLOR
Nano-SIM Holder	Size 4FF	Red
eSIM	Embedded SIM IC	Orange
Push Button	User button	Yellow
Power Switch	Slide Switch	Light Green
Battery Connector	JST	Blue
Modem Connector	Common Footprint for Cellular	Cyan



PCB Populate Options

Sensor Options

MIC



ICS-43432

TEMP



HUM



PRESSURE



AIR Q



BME680

RANGE

2m



VL53L0X

TEMP



Si7021

HUM



IMU



ICM-20602

IMU



LSM9DS1

MAG



Connectivity

Cellular

TELIT ME910C1-WW

CAT-M1

NB-IOT

GPS

LoRa

SX1276 NiceRF

SIM Options

Nano SIM card

ESIM

Antenna Options

GPS

NFC

LoRa

Cell

Application Processor

Certified nRF52840 Bluetooth Module: Fanstel BT840

Features

Cryptocell

Cortex
M4F256K RAM
1MB Flash

Connectivity

BT 5

802.15.4

NFC

Standard Options

Red LED

NOR Flash

User Button

Power Switch

Battery Monitor

1.8V - 5.0V Input

Tectonic Edge Connector

ADC

I2C

GPIO

DEBUG
UARTDEBUG
SWD

I2S

QSPI

USB

Common Cellular Modem

20 Pin Footprint

CELL USB

CELL UART