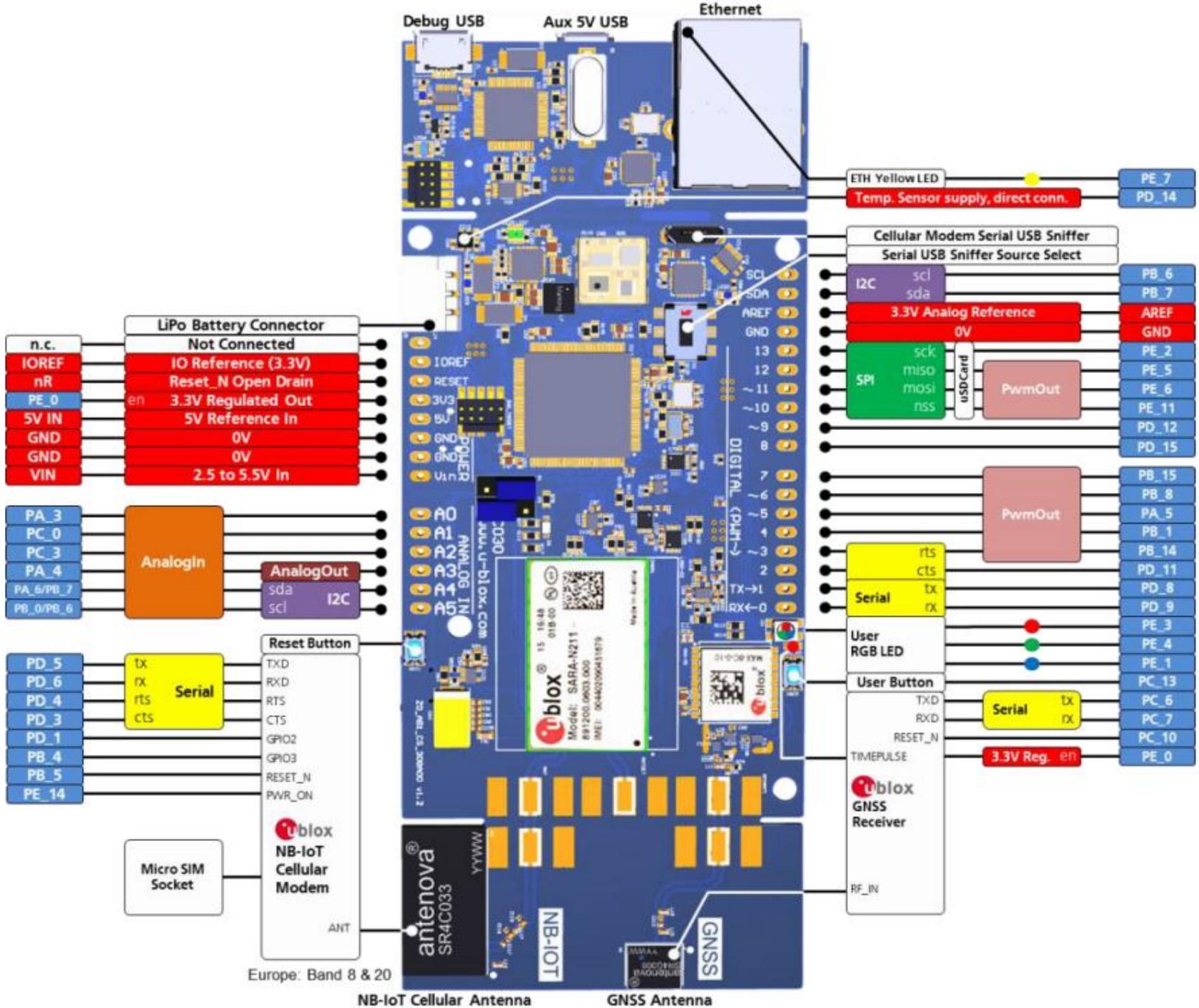


U-blox C030-N211

Overview

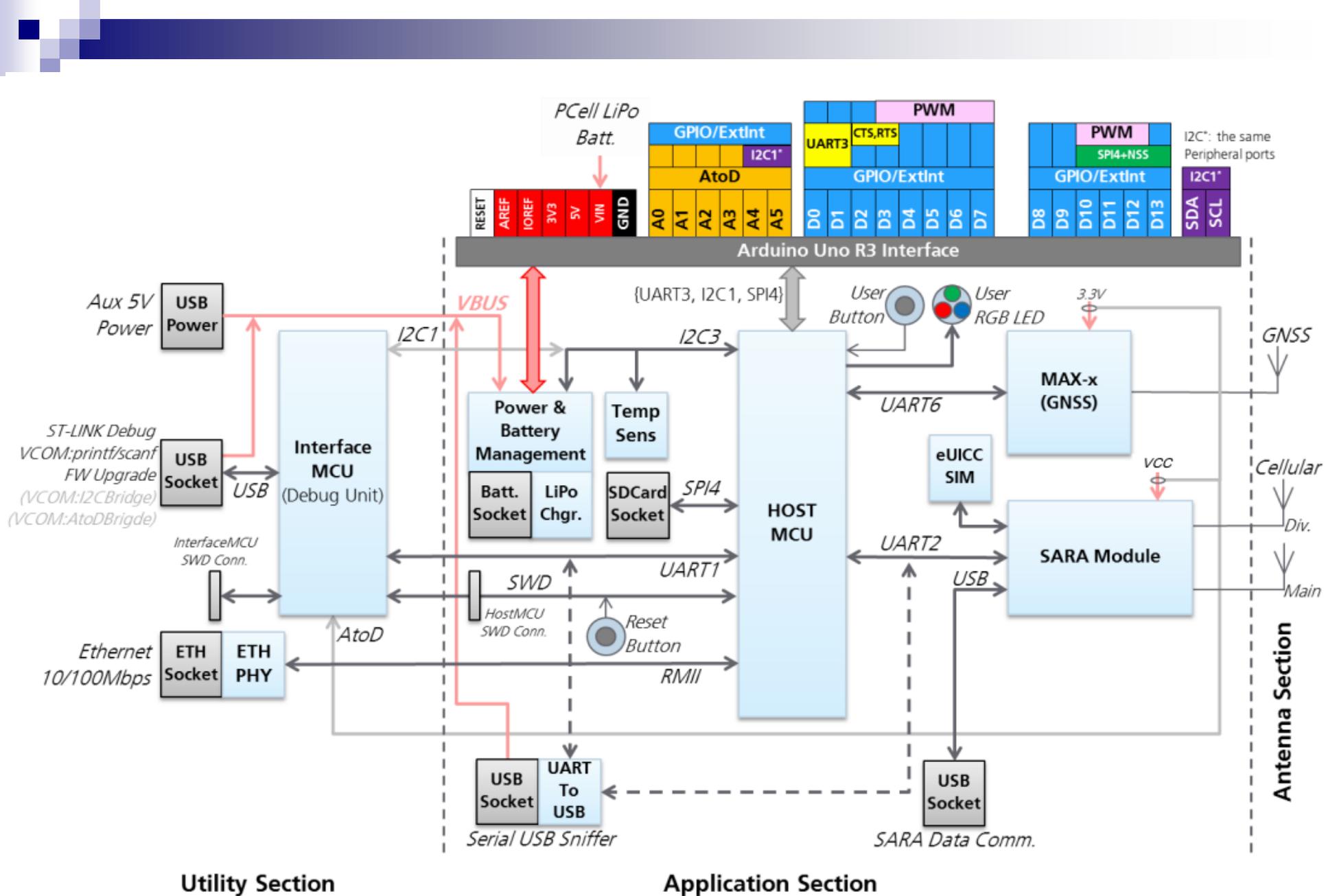


- Prototyping solution for IoT applications supporting new LPWAN (low power wide area network) cellular technologies
- The board is powered by an integrated, Arm® Mbed™ compatible Cortex-M4 host MCU with 1 MB FLASH and 256 kB RAM
 - ultra low power design
 - u-blox GNSS technology
 - integrated antennas



NB-IoT Cellular Antenna

GNSS Antenna



Utility Section

Application Section

Antenna Section

Example using GNSS

- Open Arm Keil Studio Cloud

- With a browser, go to

<https://os.mbed.com/platforms/ublox-C030-U201/>

and import into Keil studio *example-gnss*

- Set C030-U201 as target and compile
- Set C030-N211 as target and compile
- Open *teraterm*

Example using GNSS

- If there is good GPS signal, you get

```
COM7:9600baud - Tera Term VT
File Edit Setup Control Window Help
I am here: https://maps.google.com/?q=45.81091,13.31188
NMEA: $GPRMC,151545.00,A,4548.65445,N,01318.71261,E,0.077,,190124,,A*7D
NMEA: $GPVTG,,T,,M,0.077,N,0.142,K,A*24
GNSS: speed is 0.1 km/h.
NMEA: $GPGGA,151545.00,4548.65445,N,01318.71261,E,1,05,1.79,11.5,M,44.0,M,,*61
GNSS: altitude is 11.5 m.
GNSS: time is 151545.
NMEA: $GPGSA,A,3,11,20,31,12,05,,,,,,,,,4.28,1.79,3.89*07
NMEA: $GPGSV,3,1,11,04,00,342,,05,06,109,24,11,23,044,41,12,30,101,25*74
NMEA: $GPGSV,3,2,11,18,18,184,19,20,15,073,26,25,65,096,,26,14,295,*7F
NMEA: $GPGSV,3,3,11,28,56,276,21,29,81,263,23,31,37,305,27*41
NMEA: $GPGLL,4548.65445,N,01318.71261,E,151545.00,A,A*6B
GNSS: location is 45.81091 13.31188.
I am here: https://maps.google.com/?q=45.81091,13.31188
```