

# Chipset Monarch 2 SQN3430

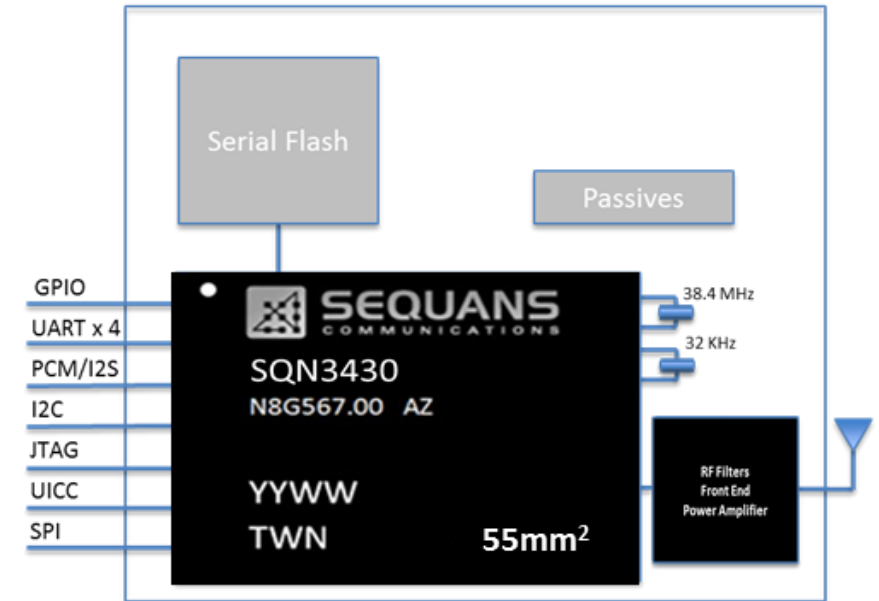
## Cat M1/NB1/NB2

### First 5G chipset ready for the massive adoption of IoT

#### Monarch 2 main features

- 3GPP Release 14 (upgradeable to Release 15\*)
- LTE Cat M1: 1.1 Mbps / 0.3 Mbps UL/DL throughput (DL throughput upgradeable to 0.59 Mbps\*)
- LTE Cat NB2\*: 160 Kbps / 120.7 Kbps UL/DL throughput
- Highly integrated chip (baseband, RF, pSRAM, and power management) for optimized cost & power solution
- Up to 60% power consumption improvement vs. Monarch
- Lowest power consumption with 1µA PSM
- Power Class PC3 (23dBm), or PC5/PC6 (20/14dBm)
- Common Criteria EAL5+ secure enclave & iUICC/ieUICC\*
- On-modem VoLTE\*

\* For future support



Typical implementation

#### Interfaces

- UART x 4
- USIM
- JTAG
- PCM/I2S\*
- GPIO
- I2C
- SPI

#### Software

- Field proven LTE software stack
- Sequans owned certified LWM2M stack
- Cloud Connector™ for direct HTTPS, MQTTS, CoAP to any cloud platforms

#### Security

- Secure enclave, CC EAL5+ certified

#### RF Frequency

- Worldwide Single SKU™ design
- 617 – 2200MHz (incl. bands 1,2,3,4,5, 8,12,13,14,17,18,19,20,25,26,28,66,71, 85)

#### Packaging

- FC-CSP package
- 6.5 x 8.5 x 0.61mm
- 197 pins, pitch 0.5mm
- RoHS compliant, halogen-free

#### Operating Supply

- Voltage 2.2 – 5.5V
- Current 1µA in PSM

#### Storage Conditions

- JEDEC MSL 3

#### Operating Temperature

- Operational -40°C to +85°C