

MDN-F8-BB (LTE Air Signal Scanner Baseband Board)

Overview

- ▶ High performance LTE baseband board for LTE air signal scanner kit.
- ▶ Enable to agile development of high quality and high performance LTE air signal scanner with your RF board.
- ▶ Support 3GPP (E-UTRA & E-UTRAN) Release10/11, FDD/TDD, CA, MIMO.
- ▶ High performance signal analyzer for power/quality/timing and RRC message.
- ▶ Flexibility I/F : Control by USB Host/Slave for PC or Bluetooth dongle for smartphone, SDHC, GPS, DC 7V to 16V (<1A@10.5V),.

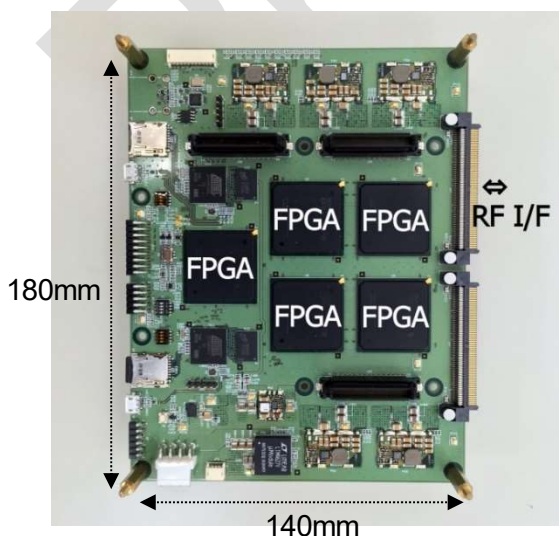
Functional Highlight

- **Easy to Use** : Simple IQ-based I/F with a RF board (Support interface information with RF).
: Firmware controls all primal measurement function. Disclose data link I/F specification for console software and it's source code as option.
- **Flexibility and Expandability**
: Stack boards up to 5 in one unit and control by one console software.
: Support 5CA (different frequency) measurement simultaneously.
: Customize to meet your requirement by updating software (FPGA).
- **Analyze RF Signal Properties**
: BW=1.4, 3, 5, 10, 15, 20 [MHz], any frequency support (depend on RF).
: RSSI/SNR, CRS based RSRP/RSRQ/SIR/RSTD, SSS based RP/RQ.
: Original SIC algorithm for top 20 cells analysis from 1 sample signal.
- **Advanced Analysis Feature**
: Estimate air channel qualities for 2x2MIMO and 4x2MIMO.
: Original algorithm to derive condition number and code book.
: Estimate effective cell coverage by searching anonymous RAR message.
: Search MIB, SIB1, SIB2-SIB13 and real-time context decode.
: Event detection of SIB update. (e.g. ETWS notification)

Software

- **HW Unit Control Software** : Settings, Start/Stop control, Real-time monitoring.
- **Log Data Conversion Software** : Convert bin to ASCII file (CSV format).
- **Supported OS** : Windows 7/8/10, Android.

LTE Baseband Board



Application Software

