

**App enabled SDR Solution for
Spectrum Scan, IoT and GSM gateway
Based on LMS7002M RF Transceiver**

RF INTERFACE PARAMETERS

(SPECTRUM SCANNING)

- RF tuning range from 10MHz to 3.5GHz

NB IoT GATEWAY

- Covering all bands of interest

GSM900 GATEWAY PARAMETERS

- Transmit frequency: 925MHz – 960MHz
- Receive frequency: 880MHz – 915MHz
- Output power: 5dBm

POWER SUPPLY

- External 5V via DC barrel connector
- External 5V via Micro-USB connector
- Active PoE via Ethernet connector

SECURITY FEATURES

- Air Interface: A5/1, A5/3
- Abis over IP interface:
 - Signalling and management - TLS/AES

- Voice - secure RTP/AES

CHANNEL SUPPORT

- LimeNET-Micro supports a single TRX and can act as a standalone Network in a Box
- TS0 = full BCCH, combined BCCH or combined BCCH with CBCH
- TS1-7 = TCH/F/H, PDCH or Dynamic PDCH/TCH
- Additionally, TS1 may be SDCCH/8 + SACCH/C8 (with optional CBCH)

USER SERVICES

- Speech format support
 - GSM FR and EFR, AMR (full and half-rate dynamic AMR based on QOS and load)
- Teleservices
 - Telephony, SMS MT/PP, SMS MO/PP
 - SABP interface of SMS
 - CB single message or user cell description
 - Cellular text mode

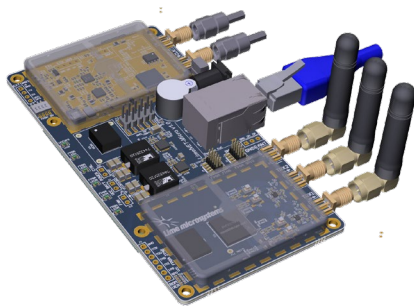


Figure 1 LMS7002M Based GSM Base Station – LimeNET Micro Board and final Product