

# MDN-F6 / Throughput Monitor Application

## Overview

- ▶ Optional application software for MDN-F6 (Portable LTE Air Analyzer System).
- ▶ Measure LTE communication throughput by FTP and PING.<sup>(Note1)</sup>
- ▶ Comprehensive and hybrid graphical tool for the LTE measurement results:
  - \* Throughput of the LTE-ready Android device.
  - \* LTE DL signal analysis data measured by MDN-F6 HW unit.
- ▶ Enables new hybrid style area analysis for the LTE cell, which has no other DL scanner can be done.

Note1) This application software doesn't include LTE modem direct control function.  
It indirectly utilizes a LTE modem function of a mobile phone or a mobile Wi-Fi router.

## Key Features

- ▶ Time series graph view. (LTE DL signal analysis result of top 5 cells)
- ▶ Table view for real-time measurement. (LTE DL signal analysis result of top 20 cells)
- ▶ Measure LTE communication throughput.
- ▶ X-Y scatter view for LTE DL signal analysis result.
- ▶ Comprehensive data logging. (Cell / Throughput result, Time, GPS info)
- ▶ GPS map view, Comment insertion to the log data, Log data playback.
- ▶ Real-time display of UE Serving PCI / Cell ID. (Only works on Android 4.2.2 and later)

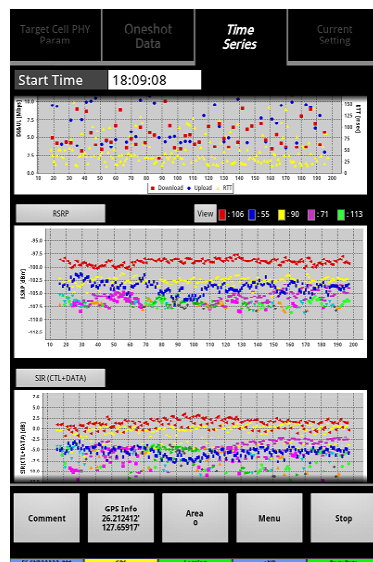
## Specs and Requirements

Supported OS ..... Android 3.0 or later (4.2.2 or later for full function)  
 LTE DL signal analyze items ..... RSSI, SNR, RSRP, RSRQ, SIR, RSTD  
 LTE throughput measurement items ..... Download / Upload Throughput, RTT (Round Trip Time)

- Table View -

Target Cell PHY Param		Oneshot Data	Time Series	Current Setting				
UE Serv. PCI	187							
UE Serv. Cell Identity	04f28f348							
RTT (msec)	220							
Download (Mbps)	---							
Upload (Mbps)	---							
Measurement Time	17:24:26							
Target Cell Frequency Band								
Fc(100MHz)	BW(100MHz)	RSSI(dBm)	SNR(dB)					
25600.000	200.000	-68.938	9.261					
Table								
Option (RSRQ & SIR) : CTL + DATA								
Target Cell								
Rank	PCI	CF	RSRP (dBm)	RSRQ (dB)	SIR (dB)	RSTD RSD (msec)	RSTD RSI (msec)	
1	90	3	-101.994	-11.871	0.554	0.000	-8.138	
Neighbor Cell								
Rank	PCI	CF	RSRP (dBm)	RSRQ (dB)	SIR (dB)	RSTD RSD (msec)	RSTD RSI (msec)	
0	187	3	-101.940	-11.961	2.207	5490.454	5498.592	
1	90	3	-101.994	-11.871	0.554	0.000	-8.138	
2	321	3	-106.850	-16.299	-5.448	4524.742	4532.880	
3	55	3	-109.668	-19.254	-8.788	8753.802	8756.515	
4	308	2	-112.999	-24.574	-8.931	3084.455	3485.787	
5	106	3	-114.018	-23.520	-13.305	2624.981	3618.708	
6	225	1	-116.043	-25.571	-16.296	5737.308	5756.296	
7	71	1	-120.881	-31.841	-16.682	4950.632	---	
8	141	1	-121.025	-28.610	-14.222	---	6586.375	
Comment					GPS Info	Area	Menu	Stop
					26.207968	0		
					127.67381			

- Time Series Graph View -



- X-Y Scatter View -

