

[TEMS POCKET 13.1]

Product: Handheld Test Device

Devices: Sony Xperia V LT25i LTE, Sony Xperia T LT30a LTE
 Samsung Galaxy S4, Samsung Galaxy S3 LTE, Samsung
 Galaxy Note 2 LTE, Samsung Galaxy Note 10.1 LTE, HTC One XL

TEMS™ POCKET – A COMPLETE MEASUREMENT SMARTPHONE SYSTEM IN YOUR HAND

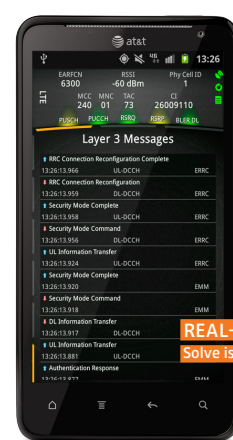


LTE READY!
 Troubleshoot today's heterogeneous networks



CONTROL FUNCTIONS
 Test like an engineer

ASCOM'S UNIQUE RANGE OF CAPABILITIES NOW ALSO WITH REAL-TIME LTE EARFCN LOCK



REAL-TIME ANALYSIS
 Solve issues on the spot

TEMS Pocket supports all major cellular technologies: GSM, WCDMA, HSPA, CDMA, EV-DO, LTE and Wi-Fi. By utilizing decades of experience in the testing industry and focusing on long-term partnerships with handset vendors and customers, TEMS is set for its own long-term evolution.

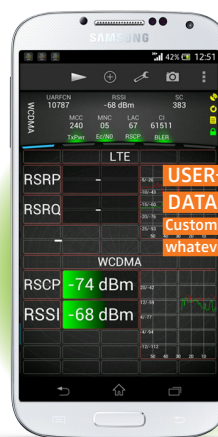
Locking functions greatly increase productivity by reducing test time and improving test reliability. TEMS products now increase the wide array of market-unique control functions with the capability of locking the device to specific LTE carriers, a crucial capability for when operators need to expand network capacity with additional frequencies.

Visualize an abundance of real-time measurements, presented over time in line charts or aggregated in histograms. Users can analyze measurements immediately in the field with logfile replay on the handset, or automatically upload to storage.



EASE OF USE
 Minimal training required

An intuitive user interface, which can adapt to show only relevant data, makes TEMS Pocket easy to use and requires minimal training. By utilizing scripted tests and preplanned indoor routes, advanced test scenarios can be executed even by new users.



USER-CUSTOMIZABLE DATA VIEWS
 Customize yourself in whatever way you like

Build custom views from the same types of graphical elements that make up predefined views. The views are overlaid with a grid, which you populate piece by piece with a mosaic of the value elements you want to monitor. Customize yourself in whatever way you like.



UNIQUE AQM SOLUTION USING POLQA
 Voice codec and audio filter control for superior AQM

The market unique AQM solution with vocoder selection provides user with the only way to reliably test user experience for individual voice codecs. TEMS Pocket also provides the user with an ultra-portable and cost efficient AQM solution through mobile to mobile POLQA, reducing the need for additional hardware.

KEY FEATURES

- Google Android OS
- High-performance smartphones
- Spans all major technologies:
 - GSM, EDGE, GPRS, WCDMA, HSPA
 - CDMA, EV-DO
 - LTE
 - Wi-Fi
- Automated service testing
 - HTTP file and Web download
 - FTL DL/UL
 - Ping, Email, SMS
 - Voice
 - POLQA mobile to mobile or mobile to fixed*
 - IP packet capture
 - Idle
 - Wi-Fi scanning
 - Multi-RAB (concurrent voice and data)
- Time scheduled and event triggered automatic tests
- Automated logfile upload
- Data views for idle, dedicated, RACH, data bearer, script information, etc.
- User-customizable data views
- Data session event viewer for script progress tracking
- Positioning with internal or external GPS
- L3 message header and full text viewer
- Wide range of L3, call and radio events with audio alerts
- Voice codec and audio filter control for superior AQM testing*
- Line charts, distribution charts
- Event markers in graphs, maps and logs
- Indoor testing
 - Convenient indoor map pinpointing
 - Easy multifloor map management
 - Support for MapInfo .tab files for easy map configuration
 - Preplanned indoor routes for quick and easy indoor navigation
 - Multipinpointing
 - Import of iBwave Design 5.3 floor plans, MapInfo files
 - Import of iBwave Design 6.0 .ibwc files
- Outdoor map with global satellite, road or hybrid map images for measurement plotting
- Plot cell site locations and antenna directions in outdoor maps
- Import of cell site data for added cell information
- Automatic processing and reporting together with TEMS Discovery automatic data processing
- Advanced control functions**
 - WCDMA/GSM/LTE RAT and Band Lock
 - WCDMA/GSM/LTE Carrier Lock
 - WCDMA/GSM Cell Lock
 - Ignore Cell Barred
 - Access Class Control
- Screen capture
- Replay collected data directly in the handset
- Logging with same level of detail as TEMS™ Investigation, i.e., including L3/L2 and chipset diagnostics data
- Filemarks in logfiles
- More than 160 presentable measurements
- Post-processing in TEMS Investigation 15.0 and TEMS Discovery 4.0 (and later versions)
- User Manual and Quick Guide available on the handset in mobile-friendly format

* Available on selected devices.
 ** Control functions may differ between model and release version.
 Please consult User Manual for details or request additional information from TEMS Sales.

DEVICE INFORMATION

Model	Operating System	Technology: WCDMA	Technology: GSM	Technology: CDMA/EV-DO	Technology: LTE	Cell control capability	Data transfer rate
Sony Xperia T LT30a	Google Android	850/1900/2100/AWS	850/900/1800/1900	–	700/850/1700/1900	WCDMA/GSM/LTE RAT/Band/Carrier Lock, WCDMA/GSM Cell Lock, Ignore Cell barred, Access Class Control	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 24 (42 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Sony Xperia V LT25i	Google Android	850/900/2100	850/900/1800/1900	–	800/850/1800/2100/2600	WCDMA/GSM/LTE RAT/Band/Carrier Lock, WCDMA/GSM Cell Lock, Ignore Cell barred, Access Class Control	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 24 (42 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Samsung Galaxy S4 GT-I9505	Google Android	850/900/1900/2100	850/900/1800/1900	–	800/850/1800/2100/2600	RAT, band	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 24 (42 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Samsung Galaxy S3 SGH-i747	Google Android	850/1900/2100	850/900/1800/1900	–	700/AWS	RAT, band	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 14 (21 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Samsung Galaxy S3 GT-i9305	Google Android	850/900/2100	850/900/1800/1900	–	800/1800/2600	RAT, band	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 24 (42 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Samsung Galaxy S3 SPH-L710	Google Android	–	–	800/1900	1900	–	EV-DO Rev. A LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Samsung Galaxy S3 SCH-R530M	Google Android	–	–	800/1900/1700	1700/1900	–	EV-DO Rev. A LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
Galaxy Note 2 SGH-i317	Google Android	850/1900/2100	850/900/1800/1900	–	700/850/1700/1900	RAT, band	–
Samsung Note 10.1 GT-N8020	Google Android	850/900/2100	850/900/1800/1900	–	800/900/1800/2600	RAT, band	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 24 (42 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)
HTC One XL X325S	Google Android	850/900/1900/2100	850/900/1800/1900	–	1800/2600	RAT, band	HSUPA Cat. 6 (5.8 Mbps)/HSDPA Cat. 14 (21 Mbps) LTE Cat. 3 (DL 100 Mbps/UL 50 Mbps)

