



PROVIDING NEXT GENERATION WIRELESS SOLUTIONS



PACER P32x Portable LTE Test Network

PACER P32x FEATURES

- Easy-to-use GUI: up and operational in a few minutes
- 100% end-to-end IP network based: all IP solution
- High-speed data support: VoIP, eMail, MMS, web browsing, application downloading and VPN
- Easily expandable into another larger IP-based network via any IP based backhaul, including WiFi, LAN, BGAN, VSAT and WiMAX
- Easily add capacity by incorporating additional Femtocells
- Built-in SIP/VoIP (Asterisk PBX)
- Can act as private data server
- Systems can be upgraded to support higher output power using external booster kits
- Lightweight, highly portable and scalable to any deployment scenario (Man, Vehicle or Airborne)

CONTROLLER FEATURES

- Ruggedized Mini PC or Laptop Computer
- User-friendly configuration interface
- Real-time intuitive display of all network activity
- All activity logged and replayed via Wireshark
- HSS/Subscriber database up to 1000 users
- Autonomous Mode (start up and go without GUI interface)
- Portable controller application support for customized solutions

DESCRIPTION

The PACER P32x Portable LTE Test Network combines a 4G LTE Femto base station, providing a robust and portable 4G Test Network that is ideal for supporting testing, training and research applications as well as tactical communication systems. An intuitive user interface allows rapid system configuration and result analysis, facilitating in a variety of operational scenarios. The P32x contains a single cell and can support up to 16 simultaneous LTE data connections. The P32x provides a robust status interface that intuitively displays network activity in real-time including:

- System configuration details (Primary synchronization parameters; Secondary synchronization parameters, Cell ID, Cell ID group, SIB parameters)
- Individual mobile subscriber activity details
- Powerful Network Activity log for all activity Log windows are organized to display events based on timestamp, call duration and valuable originating mobile and terminating mobile information
 - All logs can be exported to CSV files and can be streamed real time to a UDP port on any other laptop/device in the network

The PACER P32x is a self-contained LTE Evolved Packet System (EPS) which includes all necessary components at each LTE tier: UTRAN, Evolved Packet Core (EPC), Core and Services Network.

- UTRAN Components: PHY, MAC, RLC, PDCP, RRC, Resource Allocation, eNodeB configuration/provisioning, radio resource management
- EPC Components: MME, S-GW, P-GW
- Core and Services Network components: SGSN/GGSN, PCRF, HSS/Subscriber database, IMS Server, G3T Data Server components
- Supports all necessary procedures that allow Ue to access network and establish connectivity to Core and Services Network components including: Identification, Authentication, Attach/Detach, Paging, Service Requests, Bearer Activation, PDN connectivity, PDN Disconnection, etc.

P320 IMS/APPLICATION SERVER

- Supports VoIP, eMail, FTP, HTTP/web browsing, application downloading, content streaming, VPN, etc.
- Built-in SIP/VOIP (Asterisk PBX)
- Can act as private data server for local P32x user network hosting sponsor provided applications and content or configured to provide external access to other private network or to the public internet
- Standalone server hosting applications and servers, DNS, DHCP provides connectivity to customer

KIT CONTENTS

- LTE Femtocell
- Ruggedized mini PC - Data Server (IMS/Application Server)
- Ruggedized mini PC controller/EPC Core modules
- Hub
- Antennas (whip and panel)
- Cable kit (RF, network, power)
- Expandable by purchasing additional LTE Femtocells (same or different bands for increased coverage or capacity)

Additional Options

- Special packaging for UAV, Tactical Comms etc.
- Multi-Rat combined with other PACER networks
- Additional capacity or dual band
- Booster kits

SPECIFICATIONS

- 3GPP Compliance Compliant to 3GPP Rel 8.9.0 (Rel 9.0 future)
- Single RF Carrier
- 3GPP Band Support Dual Bands: 1/13, 4/13, 2/5, 7/13 or 3
 - Additional bands supported upon request
- Bandwidth 10 MHz (selectable 5, 10, 20 MHz coming soon)
- RF Average Output Power: 2 x 10 dBm
- Max Data Rate Throughput 30 Mbps peak DL, 14 Mbps peak UL
- Simultaneous Active Users: 8 (expandable by adding LTE Femtocells)
- Simultaneous Idle Users: 64

SWAP Details

Size	LTE Femto	2.5"W x 7.5"H x 9"D
	Controller	4"W x 1.45"H x 6.1"D
	Data Server	4"W x 1.45"H x 6.1"D
	Hub/Switch	4.8"W x 1"H x 4.8"D
Weight	18 lbs.	
Power	85 Watts (Max/Loaded)	



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