

For the Cell Technician



Cell Site Technicians monitor the performance of the wireless networks with the ZK-SAM (System Access Monitor). Daily use of the ZK-SAM enables the Technician to understand how the system performs. When the network functions differently or a failure occurs the Technician will notice it immediately and perform corrective action.

The ZK-SAM is compact and easy to see and use. It does not require the Windows operating system or a personal computer. It can be installed in a safe location inside the vehicle and set to turn on, boot up and start collecting data when the Technician turns on the vehicle. Within 5 seconds from turning the key the ZK-SAM is literally monitoring the network and collecting data.

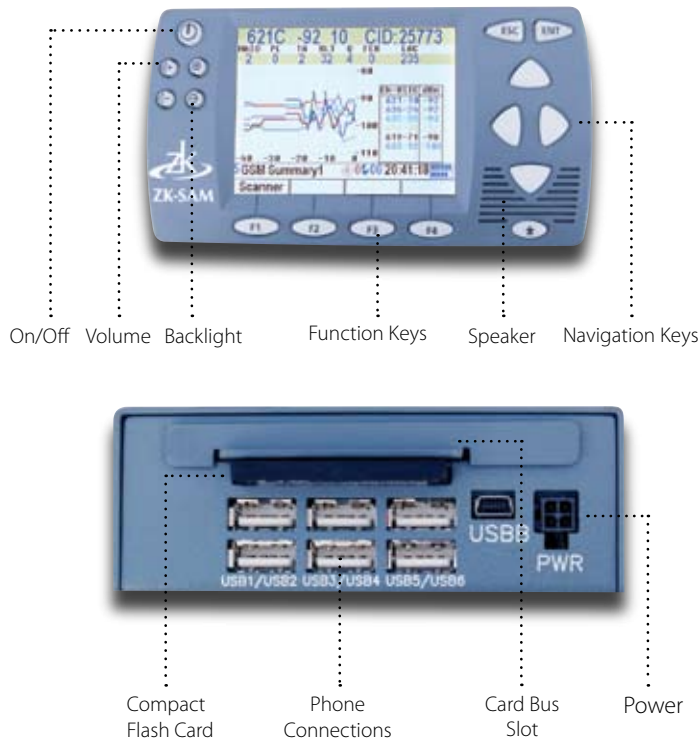
The ZK-SAM is an extremely rugged piece of equipment. It has no moving parts and can operate in extremely cold as well as hot, humid environments. ZK engineers specifically select industrial grade components. We don't cut corners when it comes to reliability. All new designs are environmentally stress tested for shock and vibration at a certified laboratory.

The ZK-SAM display module is custom designed to be used in the vehicular environment. The transfective display can be viewed in direct sunlight or when it gets hot or cold. For night driving the backlight can be adjusted down. The buttons are also backlit and custom designed to provide instant feedback. The number and placement of the buttons allow the user to safely operate the unit and keep their eyes on the road.



ZK-SAM

Network Monitoring and Troubleshooting



Up to five (5) phones can be connected to the ZK-SAM and simultaneously display and log data on any of the supported technologies. Through the easy to navigate menus the user can change the configuration settings and program the auto dial, data testing and scanning parameters of the phones.

If the Technician imports custom cell site names the ZK-SAM will display the name of the cell/sector that corresponds with the serving channel as well as the neighbor channels. Up to 5,000 names can be imported. If more than one cell site name has the same channel number, BSIC or PN then the ZK-SAM compares their locations with the current location of the ZK-SAM and chooses the closest one.

Audible alerts and Replay can be used to indicate problems and troubleshoot them in the field. Thresholds can be configured by the user to indicate an alert. A voice announcement can be turned on or off for each alert. Replay can be used to provide a safe and quick method of troubleshooting network issues in the field.

Data is logged to an industrial grade Compact Flash card. It is stored in standard ASCII text format and can be imported by third party applications as well as ZK's CellMap (MapInfo plug-in), EZ2Map and RMS Server software.



ZK Celltest, Inc.
256 Gibraltar Drive
Suite 109
Sunnyvale, CA 94089

1 (800) TESTCELL
1 (408) 752-0449
Fax: 1 (408) 752-0477
www.zk.com
sales@zk.com

Features

- Heads-up Color Display
- Multi-technologies
CDMA, GSM, 1xRTT, EvDO,
GPRS/EDGE, UMTS/WCDMA,
HSDPA, HSUPA, iDEN
- Multiple Phones - up to 5
- Phone-based Scanners
GSM/BSIC
CDMA PN
- Voice and Data Testing
- Audible Alerts and Replay
- Import 3,000 Cellsite Names
- Integrated GPS Receiver
- Phone Autodial and Control
- Wireless modem for autonomous upload to server
- Compact Flash card for storage
- Log data compatible with:
MapInfo (CellMap plug-in)
MS MapPoint (EZ2Map)
RMS Server
Actix Analyser
Xceed WindCatcher & Vortex
MS Excel
Applications supporting
ASCII import

Hardware Specifications

Dimensions/Weight:

Controller:
5.95"W X 1.52"H X 4.125"D
0.83lbs (13.3oz)
Display:
6.25"W X 3.40"H X .83"D
0.42lbs

Temperature (operational):

-20C to +60C

Maximum Operational Humidity:

0 to 95% Relative – Non
Condensing

Power Requirements:

12VDC +/- 3VDC @450mA

Vibration:

Tested for continuous high
vibration environments

GPS Receiver:

16 Parallel Channel, Continuous
Tracking
Accuracy: +/- 5 meters
Update Rate: 1 Hz