WJ-8664/PRT (portable)

WJ-869x/IA Antenna

MULTICHANNEL RECEIVING SYSTEMS

The WJ-8664 and WJ-869xA Systems combine high-performance RF circuits with advanced DSP to provide compact and flexible intercept capability against EAMPS, NAMPS, DAMPS (IS-54 & IS-136), ETACS, NMT (450 & 900) or INMARSAT-A mobile communications systems. The systems adapt to various operating environments through the use of a powerful and intuitive GUI. The systems come in both rack-mounted and portable configurations to support both fixed-site and mobile applications.

The Dual Channel Tuner (DCT) option allows accept two RF inputs to be routed to two internal wideband converter channels. Both channels are tunable over a 20 to 1000 MHz range (1500 to 2200 MHz with an optional frequency extender) in 1-MHz steps. Each channel provides a 40-MHz output IF, centered at 70 MHz, to six individually tunable digital receivers. The wideband, non-blocking RF distribution to the digital receivers enables the systems to simultaneously process the entire forward and reverse cellular bands. Users can dynamically configure individual receivers to monitor control or traffic channels. BAE SYSTEMS provides both VSELP and ACELP vocoder processing for the digital formats.

A powerful IS-136 GUI controller fully enhances system capabilities. Through the GUI, the user has full administration and control of a target lists and receiver modes. Options include:

- General-purpose surveillance-receiver model
- Master/Slave expandability for creating up to a 24-channel system
- Multichannel audio reconstruction (2-wire, E1 or T1) and auxiliary Ethernet output for external intercept distribution
- Optional digital storage subsystem for recording

WJ-866x/DSS

DIGITAL STORAGE SUBSYSTEM

The WJ-866x/DSS provides high-performance digital recording of intercepted traffic and signal-related information for the WJ-8664 and WJ-869xA product lines. The DSS stores signals in industry standard .txt and .wav file pairs for random-access distribution via FTP over the Ethernet. It supports simultaneous record, search and playback applications. The DSS provides greater then 70-channel-hours recording capability sourced from up to six receiver channels. The unit is available in mobile or rack-mounted configurations.

MULTICHANNEL RACK-MOUNTED SYSTEM

The WJ-8692 combines state-of-the-art Digital Signal Processing (DSP) components and an open-system architecture (VME) to provide simultaneous monitoring of multiple mobile communications channels. The system supports EAMPS, NAMPS, DAMPS (IS-54), IS-136 and ETACS mobile communications standards. Its Graphical User Interface (GUI), hosted on a Windows™ NT platform, provides a user-friendly interface.
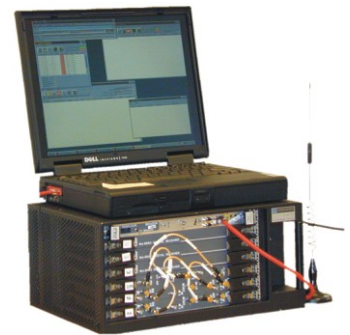
The WJ-8692 System supports a variety of operating modes. In the simplest mode, the operator need only specify the type of communications system and provide a prioritized list of target phone/serial numbers. The system then uses an intelligent scanning scheme to locate active control and voice channels. The system collects phone/serial numbers, compares them to the target list, and monitors targeted conversations.

The WJ-8692 associates two RF inputs with each receiver to provide switchable low-band and high-band antenna feeds. The WJ-8692 also has provisions for multiple forward-band RF inputs. These capabilities allow the user to more effectively manage cellular and wireless communications collection in today's dense environments.

- 19" rack-mounted or portable VME-based chassis configurations
- Expandable channel count capacity
- Forward-band antenna sectoring
- Survey capability to automatically locate & configure active control and traffic channels
- Switchable antenna inputs
- Available options include:
    - 30-channel EI PCM output
    - 12-channel audio output
    - Ethernet output

WJ-8692 Rackmount

WJ-8692 Portable