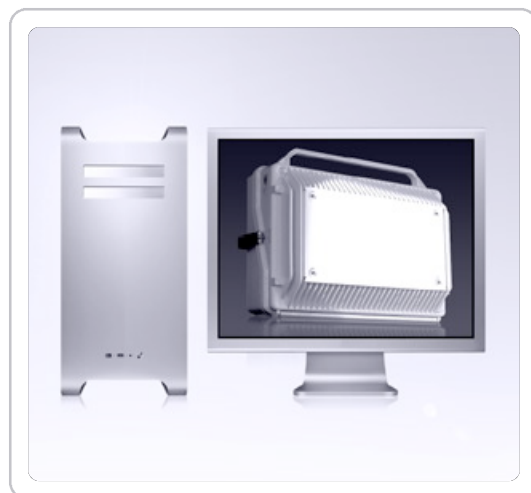# SA-MTE

Stand Alone Mobile Test Equipment

The SA-MTE, Stand Alone Mobile Test Equipment, is a powerful testing environment that manufacturers of Mobitex equipment can use to test their mobile units and applications.

The SA-MTE provides a complete set of test tools that can emulate radio-link traffic as well as single radio-link frames.

The SA-MTE can also be used by Mobitex network operators to perform the basic verification of a mobile unit's behavior.

Product features

1 The SA-MTE software runs on a BRU3 single channel base station and is controlled by a front-end application running on a PC or SUN Solaris platform.

2 The radio-link protocol is compatible with Mobitex Interface Specification Rev. R4A as used in Mobitex System Releases NTE, R14N and R14E.

3 The user application supports an easy-to-use graphical interface both on PC & SUN platforms.

4 SA-MTE can generate correct as well as emulated error frames for both positive and negative testing.

5 Frames and traffic can be logged for off-line analysis and processing.

6 The SA-MTE can also be used in together with the Sniffex 8 kbps Radio Listener products for very detailed analysis of a mobile unit's behavior.

Functional Description
– Mobitex SA-MTE

SA-MTE can operate in two different modes: a transparent mode, which can be used to send any frame to a mobile unit, and an autonomous mode, in which it emulates a base station connected to the Mobitex network.

Transparent mode

Transparent mode means that the base station's scheduling mechanism is disabled. All frames are transmitted over the radio without any checks of the frame fields.

Transparent mode will not function like a normal base station with respect to the radio protocol, since the base station does not respond to the frames that the mobile unit sends to the base. This mode is used for testing the mobile unit's response.

Autonomous mode

This mode is used to verify that the mobile unit responds correctly with respect to the Mobitex protocol. In this mode, several mobile units can communicate with each other to test real traffic situations. When SA-MTE is operating in autonomous mode, only MRM frames can be sent to the mobile unit, which thus emulate messages from the Mobitex network.

Send / save frames

Signals produced in SA-MTE can be saved and later recalled by the user so that tests can be started quickly. Transmitted signals and their responses can also be saved in a file together with time / date stamps.

For technical data on BRU3, order separate data sheet.

Product	Document number
BRU3, 400, 800, 900 MHz	EN/LZT 123 5621 R3

Subject may change without notice.