



RTX2030
DECT AIRSPY
DATA SHEET

The RTX2030 DECT AirSpy is a generic communication monitoring and analysis tool. It can assist product developers and installers capture and analyze DECT / DECT 6.0 / CAT-iq / Japan DECT RF signals. It consists of a dedicated DECT RF capture unit and Windows application SW.

RTX2030

CAPTURE UNIT

The capture unit can operate in three different modes

- each optimized for different analysis scenarios:

- *Asynchronous slide scanning mode*
- for DECT spectrum discovery
- *Synchronized cell scanning mode*
- for DECT network cell survey and analysis
- *Synchronized bearer receive mode*
- for detailed protocol analysis between FP and PP

The capture unit receives DECT RF signals and performs native packet processing. Further analysis and presentation is done with the AirSpy analysis SW tool.

ANALYSIS SW

The PC application offers a multi-window environment for control & presentation of information from the capture unit. The tool implements the following functions:

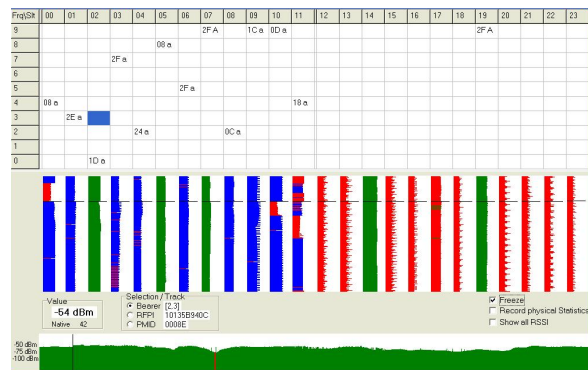
- *Interpretation & display of information on different hierarchical levels:*
 - Physical (EU, US, Japan, user configurable)
 - MAC (Nt, Pt, Qt and Mt messages)
 - DLC (Class-A messages)
 - NWK
- *Real-time display of bearer position and physical parameters*
- *Protocol interpretation*
- *Post-capture analysis*
- *Message filtering on FP & PP identities*
- *Physical parameter measurements:*
 - Signal strength, RSSI
 - Timing analysis with DECT symbol time & 1/9 symbol time resolution
- *Generate log files of captured information for further analysis*

KEY FEATURES

- *Real-time display of bearer position & physical parameters*
- *Physical parameter measurements (Timing analysis, signal strength)*
- *Interpretation & display of information on different hierarchical levels (PHY, MAC, DLC, NWK)*
- *User-configurable frequency band (EU, US, Japan)*
- *Various filtering options*
- *Protocol interpretation & post-capture analysis*
- *Built-in diversity antennas*

APPLICATIONS

- *Protocol analysis*
- *Deployment analysis in both single & multi-cell environments*
- *Traffic analysis*
- *Slot & frame timing analysis*



Extract of the Windows User Interface

TECHNICAL SPECIFICATIONS

CAPTURE UNIT	SPECIFICATIONS
FREQUENCY BAND	DECT (1880-1930 MHz)
RECEIVER SENSITIVITY	<-92 dBm at 10-4 BER
CONNECTIONS	USB; SMA (for external antenna)
POWER SOURCE	USB
DIMENSIONS (WXHxD)	120 x 130 x 35 mm (approx. 4 ¾ x 5 ¼ x 1 ¾ in)
WEIGHT (W/ CABLE)	200 g (7 oz)
PC ANALYSIS SW	SPECIFICATIONS
SUPPOTED OS'S	Windows XP, 7, 8, 10x
SYSTEM REQUIREMENTS	Available USB port

ORDERING DETAILS

RTX NO.	BASIC UNIT	DESCRIPTION
95101360	DECT AirSpy Package	Capture unit & analysis software