Option DA1220-B2

Air Sniffer Option for DA1220 Certification Test System

Simultaneous Tracing of

DECT/CAT-iq protocol and backbone IP protocols (SIP, H.323, .....

ideal extension for CAT-iq FP designer

1.0 General Description

DA1220-B2 software is an option to Certification Test System DA1220. This tool allows to monitor and to analyze the DECT/CAT-iq™ protocol. The capturing is carried out via DA1220-K1 RF probe from the air interface (“Air Sniffer”).

DA1220-B2 software provides an Ethernet interface for

- online monitoring with open source tool “Wireshark”
- dissector for DECT/CAT-iq™
- NEW: simultaneous tracing backbone (SIP, H.323, etc) and DECT/CAT-iq protocol

and

- configuration tool for base station locking
- RF environment scan
- capturing A-Field and B-Field

DA1220-B2 is designed for DA1220-K1 RF-probe of DA1220 system. The DA1220-K1 probe traces A-field and B-field data.

DA1220-B2 provides the Wireshark dissector framework for DECT/CAT-iq™ protocol. The Wireshark DECT dissector is open source and can be downloaded under GPL.

2.0 Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>DECT CI</th>
<th>EN 300 175</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DECT US</td>
<td>DECT 6.0</td>
</tr>
<tr>
<td>CAT-iq</td>
<td>V1.0 and V2.0</td>
<td></td>
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</tbody>
</table>

Configuration Tool

- RF environment scan with base station capability information
- Various filter option on DA1220-K1 probe
- Firmware Update
- Default key downloading, further version

Wireshark

- Realtime time capturing in Wireshark
- simultaneous tracing from backbone (e.g. SIP, H.323, etc) and DECT/CAT-iq™ protocol
- Wireshark dissector framework
  - Interpretation of MAC, DLC, NWK messages
  - Open interface to extend any proprietary protocol by customer

3.0 Compatibility

<table>
<thead>
<tr>
<th>System</th>
<th>RF Probe</th>
<th>USB Version</th>
<th>USB Class</th>
<th>OS</th>
<th>Certification Test System</th>
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</thead>
<tbody>
<tr>
<td>DA1220-K1</td>
<td>V1.1</td>
<td>CDC/ACM, CDC/ECM</td>
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<tr>
<td>DA1220</td>
<td>OS’s Driver</td>
<td>Windows XP</td>
<td>Microsoft default driver</td>
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Option DA1220-B2

DA1220 Air Sniffer
Identno 1220.3200.01

4.0 Wireshark example

5.0 Order Information

<table>
<thead>
<tr>
<th>DA1220 Air Sniffer</th>
<th>Software Option to DA1220</th>
</tr>
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<tbody>
<tr>
<td>Type</td>
<td>DA1220-B2</td>
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<tr>
<td>Identnumber</td>
<td>1220.3200.01</td>
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This data sheet contains specific information for DOSCH&AMAND DA1220-B2
Specifications may change in any manner without notice