

Known Bugs and Shortcomings of the Ericsson Module

Ericsson Module
Hardware Rev. P3E
Software Rev. P9A



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Currently we are aware of the following bugs or shortcomings in the most recent release of the Bluetooth module from Ericsson. A brief description follows here.

- HV2 is not supported
- Simplex data transfer in HV3 mode may result in corrupted packages from master. This is due to a defect in Baseband B P3A ASIC.
- Full duplex data transfer in HV3 mode is unreliable. This is due to a defect in Baseband B P3A ASIC.
- In some cases, inquiry response is not always received, even if the inquiry timeout is 10.24s and a digital Radio chip is used. After exhaustive testing, Ericsson has determined that inquiry fails in less than 1% of the cases. In the failure cases, the slave sent FHS packets as expected, but throughout the probing window the inquirer and the responding unit was on different hop when the FHS packets were transmitted. Additionally, in some rare cases a ghost response is received on an inquiry. The device responds with the wrong BD address and the rest of the information can not be trusted either. This defect is in Baseband B P3A ASIC.
- Hold mode is not supported due to a HW bug in the Baseband-B P3A.
- The UART TL implementation does not support SCO data via UART.
- Bluetooth test mode IUT-role is implemented, except for loop back of SCO packets. Nothing is tested though, so it might not work. Bluetooth test mode tester-role is not implemented at all.
- Full duplex data transfer using DH5 might result in corrupted data. Time for failure varies between a couple minutes to several (10.15) hours.
- System crashes about 2% of the times, just before an Inquiry complete event should have been sent.

- Connection timeout when doing mutual authentication. This is most likely a BT specification error. Errata work in progress.
- Adding/removing a SCO link with HV1 packets on an existing ACL link with DM1 packets might result in data loss. A few bytes can be lost if data is sent at the same time as the master and slave are switching between DM to DV packets. This is due to a defect in Baseband B P3A ASIC.