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| Title : | Release Notes | | | |
| File : | XETK-S20.1B_Release-NotesV26.docx | | | |
| TTNR : | F-00K-110-093 | | | |
| Comments : | Current shipped (hardware state): D014/01 Current released firmware version: HSP 14.3.0 | | | |
| Created: | Name R. Mai | Department ETAS-DAP/XPC-Fe1 | Signature R. Mai | Date 2024-09-17 |
| Released: | Name K.-H. Nirschl | Department ETAS-DAP/XPC-Fe1 | Signature K.-H. Nirschl | Date 2024-12-02 |

Changes

| Revision | Description | Date | Name | Signature |
|----------|---|------------|--------|-----------|
| 01 | Initial Version | 2016-04-26 | Oexner | Oexner |
| 02 | Updated HDC/Firmware with HSP11.1.0 | 2016-06-09 | Oexner | Oexner |
| 03 | Software and Microcontroller Support updated | 2016-09-20 | Oexner | Oexner |
| 04 | Updated HDC/Firmware with HSP11.2.1 | 2016-10-24 | Oexner | Oexner |
| 05 | Updated Firmware with HSP11.3.0 | 2016-12-20 | Oexner | Oexner |
| 06 | Updated Firmware with HSP11.4.0 | 2016-03-13 | Oexner | Oexner |
| 07 | Improvements and bug fixes with HSP11.6.0 | 2017-09-21 | Förmer | Förmer |
| 08 | Updated Firmware with HSP11.7.0 | 2017-12-01 | Mai | Mai |
| 09 | Improvements, bug fixes and updated Firmware with HSP11.8.0 | 2018-03-14 | Mai | Mai |
| 10 | Improvements, bug fixes and updated Firmware with HSP11.9.0 | 2018-06-18 | Mai | Mai |

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|----|--|------------|---------|---------|
| 11 | Improvements, bug fixes and updated Firmware with HSP11.10.0 | 2018-09-13 | Mai | Mai |
| 12 | Improvements, bug fixes and updated Firmware with HSP11.11.0 | 2018-12-12 | Mai | Mai |
| 13 | Improvements, bug fixes and updated Firmware with HSP11.12.0 | 2019-03-20 | Mai | Mai |
| 14 | Improvements, bug fixes and updated Firmware with HSP11.14.0 | 2019-09-17 | Mai | Mai |
| 15 | Improvements, bug fixes and updated Firmware with HSP11.15.0 | 2019-12-10 | Mai | Mai |
| 16 | Improvements, bug fixes and updated Firmware with HSP12.0.0 | 2020-03-23 | Mai | Mai |
| 17 | Improvements, bug fixes and updated Firmware with HSP12.3.0 | 2020-12-01 | Mai | Mai |
| 18 | Improvements, bug fixes and updated Firmware with HSP12.4.0 | 2021-03-11 | Mai | Mai |
| 19 | Improvements, bug fixes and updated Firmware with HSP12.5.0 | 2021-06-29 | Mai | Mai |
| 20 | Improvements, bug fixes and updated Firmware with HSP12.6.0 | 2021-09-16 | Nirschl | Nirschl |
| 21 | Improvements, bug fixes and updated Firmware with HSP13.1.0 | 2022-06-10 | Nirschl | Nirschl |
| 22 | Improvements, bug fixes and updated Firmware with HSP13.3.0 | 2022-12-07 | Mai | Mai |
| 23 | Improvements, bug fixes and updated Firmware with HSP13.4.0 | 2023-03-10 | Mai | Mai |
| 24 | Improvements, bug fixes and updated Firmware with HSP14.0.0 | 2024-03-08 | Nirschl | Nirschl |
| 25 | Improvements, bug fixes and updated Firmware with HSP14.2.0 | 2024-09-17 | Mai | Mai |
| 26 | Improvements, bug fixes and updated Firmware with HSP14.3.0 | 2024-12-02 | Mai | Mai |

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1 General Information

1.1 Safety Notice

Calibration activities influence the behavior of the ECU and the systems controlled by the ECU. This may result in unexpected behavior of the vehicle and thus can lead to safety critical situations. Only well trained personnel should be allowed to perform calibration activities.

1.2 System Requirements

Recommended system requirements on a PC running ETK Drivers and Tools, HSP or Inca:

- 2 GHz Pentium-PC or equivalent, equipped with
 - 1 GB RAM (basic hardware), depending on the use cases 2GB RAM are advantageous
 - Hard disk with minimum 10 GB free disk space
 - DVD-ROM for installation
 - XGA-Graphic card with XGA-screen and resolution of at least 1024 x 768 with 16 bit colors, DirectX 7
 - Fast Ethernet adapter 100BaseT
 - with full duplex capability
 - configured as component TCP/IP only
 - separate to e.g. company network
 - WINDOWS® XP (SP3 or higher), WINDOWS®VISTA (SP1 or higher) or WINDOWS®7

1.3 Restrictions

WINDOWS® 95b, WINDOWS® NT, WINDOWS® 2000 and WINDOWS® 98SE are not supported

1.4 Miscellaneous

To ensure the highest data throughput from the XETK device up to the PC system no other PC software should be run via this Ethernet adapter.

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2 Version Syntax and Tool-Chain Information

2.1 Version-Syntax of the XETK-S20.1B

The XETK-S20.1B hardware version information is located on the product sticker and can be read out of the XETK using the firmware update tool HSP or XETK Configuration Tool.

Hardware State Syntax: **abbb/cc**

Description (modification details refer chapter 5)

| | |
|------------|---|
| a | PCB Version (A=V1.0, B=V1.1, C=V1.2, ...) |
| bbb | PCB Hardware State (010, 011, 012, ...) |
| cc | PCB Population Variant (00, 01, 02, ...) |

The XETK-S20.1B Firmware version information can be read out of the XETK using the firmware update tool HSP or XETK Configuration Tool. It is not printed onto a XETK sticker.

Firmware-Version Syntax: **aaa.bbb.ccccc**

Description (modification details refer chapter 5)

| | |
|-------------|----------------------------|
| aaa | Major Release (0...255) |
| bbb | Minor Release (0...255) |
| cccc | Revision/Patch (0...65535) |

Firmware Packages:

| | |
|-----------------|---------------|
| HDC Work | aaa.bbb.ccccc |
| Firmware Work | aaa.bbb.ccccc |
| HDC Rescue | aaa.bbb.ccccc |
| Firmware Rescue | aaa.bbb.ccccc |
| CPLD | aaa.bbb.ccccc |

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2.2 Version information of the tool-chain components

To get this XETK running with the other components of the tool-chain please make sure that the version mentioned below or a newer one is used. If your software-, firmware- or hardware version is older, please update it.

If you have any problems to get this XETK running, please contact our local customer support or sales representative.

Updates or refreshes can be downloaded from the ETAS homepage:

<http://de.etasgroup.com>

<http://en.etasgroup.com>

2.3 Software and microcontroller support

| Microcontroller | HSP | INCA | ETK Tools | ASCET-RP | INTECRIO |
|------------------------------|----------|---------|-----------|----------------------|----------------------|
| TC23x | V11.10.0 | V7.2.10 | V4.1.12 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC26x | V11.2.0 | V7.2.2 | V4.1.3 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC26x-ED | V11.2.0 | V7.2.2 | V4.1.3 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC27x | V11.2.0 | V7.2.2 | V4.1.3 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC27x-ED (A-Step) | V11.0.1 | V7.2 | V4.1.0 | A: V6.4 B: V6.1.4 | A: V4.6 B: V4.2.2 |
| TC27x-ED (B-Step, C-Step) | V11.0.1 | V7.2 | V4.1.0 | A: V6.4 B: V6.1.4 | A: V4.6 B: V4.2.2 |
| TC29x | V11.8.0 | V7.2.8 | V4.1.9 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC29x-ED | V11.0.1 | V7.2 | V4.1.0 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC36x-PD | V11.15.0 | V7.2.15 | V4.1.16 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC37x-PD | V11.15.0 | V7.2.15 | V4.1.16 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC37x-ED | V11.12.0 | V7.2.12 | V4.1.13 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC37x-XX | V12.3.0 | V7.3.4 | V4.2.3 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC38x-PD | V11.8.0 | V7.2.8 | V4.1.9 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC39x-ED (A- Step) | V11.2.1 | V7.2.2 | V4.1.3 | A: V6.4 B: V6.4 | A: V4.6 B: V4.6 |
| TC39x-ED (B- Step) | V11.8.0 | V7.2.8 | V4.1.9 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC39x-XX | V12.3.0 | V7.3.4 | V4.2.3 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |
| TC3Ex-PD | V14.2.0 | V7.5.2 | V4.4.2 | A: V6.4 B: V6.3 | A: V4.6 B: V4.3 |

A: SBB V2.1 / B: HBB [DISTAB13]

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3 What's New - Release Notes

This chapter lists the main improvements compared to a previous shipped ETK product. Additionally, a detailed list of already known issues can be found here.

3.1 New or Enhanced Functions

3.1.1 New with HSP 14.3.0 and INCA V7.5.3

| Issue Identifier | Description |
|------------------|---|
| 774597 | Unintentional read access to address "0" in case of wrong memory segment config |
| 774192 | Bugfix for DAP error counters |

3.1.2 New with HSP 14.2.0 and INCA V7.5.2

| Issue Identifier | Description |
|-----------------------|--|
| n.a. | Support of TC3Ex |
| ETKX-5336 / ETKF-1895 | Improve internal timing |
| ETKX-4024 | Support DAP Error Counter for XETK-S30 |
| ETKBD-4 | Align and extend XETK and FETK Lua APIs |
| ETKBD-23, ETKX-4351 | Support Lua-based detection CPU type detection |
| #767514 | Fix interrupt on halt after reset |
| #762534 | Improve DAP timing |

3.1.3 New with HSP 14.0.0 and INCA V7.5.0

| Issue Identifier | Description |
|------------------|---|
| 743317 | XETK disconnection leads to OMD reconfiguration when bypass is active |
| ETKX-4547 | Fix problems with XETK debug log |
| ETKX-4591 | Fix and Improve behavior with multiple XCP connections |
| ETKX-4389 | Improve XCP error message on failures of initializing overlay RAM |
| ETKX-3797 | XETK Watchdog Counter as monitoring variable |
| ETKX-4053 | Support for Semantic Versioning |
| ETKUS-3257 | DRA Support for TC38x |
| ETKX-3784 | Cleanup McWaitBit properly in case of XCP disconnect |
| ETKX-3866 | Support additional commands for XCP flashing |
| ETKX-4131 | Support CRC32 as checksum mechanism (config feature XcpChecksumAlgorithm) |

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3.1.4 New with HSP 13.4.0 and INCA V7.4 SP4

| Issue Identifier | Description |
|------------------|--------------------------------|
| ETKX-2694 | Support Monitoring Variables |
| ETKX-3393 | Improve out-of-memory behavior |

3.1.5 New with HSP 13.3.0 and INCA V7.4 SP3

| Issue Identifier | Description |
|------------------|---|
| ETKX-3239 | Support for Disable ECU Watchdog via Script |
| Call 700524 | Fix sporadically error using Distab17 |

3.1.6 New with HSP 13.1.0 and INCA V7.4 SP1

| Issue Identifier | Description |
|------------------------|--|
| ETKX-601 | XETK returns XCP V1.5 is supported |
| ETKF-1304 | Drop support for TC27x A-step |
| ETKX-2572 ETKX-2636 | Improve XETK performance significantly to improve compatibility with BR_XETK-S3.0A |
| 682863 | Fix formatting of trace overflow event |
| 684489 | XCP CONNECT does not reset XCP TX counter when connection already exists |
| 635588 | Fix Watchdog disable Pin (WGDIS) is still active while ECU is unpowered |

3.1.7 New with HSP 12.6.0

| Issue Identifier | Description |
|------------------|---|
| #664102 | Fix Start on working page after XETK Standby |
| #663507 | XETK doesn't respond to unknown XCP user commands |

3.1.8 New with HSP12.5.0, INCA 7.3.5 and XCT 4.2.5

| Issue Identifier | Description |
|------------------|---|
| ETKPRG-974 | Release of additional page switching method "DRA" (Direct Register Access). Available initially for TC39x-ED. Requires HSP12.5.0 and INCA 7.3.5 or newer. |

3.1.9 New with HSP12.4.0

| Issue Identifier | Description |
|------------------|--|
| ETKX-1063 | Implement a standby configuration storage for XETK |
| ETKX-1027 | Report measurement status in GET_STATE with key 0x16 (Measurement Status) |
| # 650642 | XETK: TCP retransmit might be suboptimal under conditions with ethernet errors |

3.1.10 New with HSP12.3.0

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| Issue Identifier | Description |
|------------------|--|
| ETKPRG-824 | Support TC39x-XX and TC37x-XX |
| ETKX-887 | Improve error handling in case of too many signals |
| # 645177 | Loss of OMD / Working page after XETK standby |
| # 643709 | TC39x EMEM DAP access timeout |
| # 642381 | Out of Memory Error not propagating to user |

3.1.11 New with HSP12.0.0

| Issue Identifier | Description |
|------------------|--|
| # 626970 | ECU traps due to EE change when ECU is off |
| # 629990 | ECU traps due to switching to new PC without stopping the measurement before |
| ETKPRG-621 | Support TC33xPD |

3.1.12 New with HSP11.15.0

| Issue Identifier | Description |
|------------------|----------------------------------|
| ETKPRG-517 | Support of TC36x-PD and TC37x-PD |
| ETKPRG-539 | |

3.1.13 New with HSP11.14.0

| Issue Identifier | Description |
|------------------|---|
| 611515 | XETK_Configuration: 5us trigger polling period could result in an inaccessible XETK |
| 619762 | Infrequent wrong order of XCP counter between DTO and CTO response |

3.1.14 New with HSP11.12.0

| Issue Identifier | Description |
|------------------|---|
| ETKX-96 | Improvements for DAP access on block read |
| ETKPRG-227 | Support of TC37x-ED |
| # 607283 | Measurement of dummy data in case of DAP errors |

3.1.15 New with HSP11.11.0

| Issue Identifier | Description |
|------------------|--|
| #600925 | Loss of connection in case of DAQ Overload (XCP counter error) |

3.1.16 New with HSP11.10.0

| Issue Identifier | Description |
|------------------|--|
| #595893 | IP Manager cannot move XETK to different IP subnet when static IP is set |

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|-----|--------------------|
| n/a | TC23x-PD supported |
|-----|--------------------|

3.1.17 New with HSP11.9.0

| Issue Identifier | Description |
|------------------|--|
| #589249 | Static calibration with XCT does not work |
| #585676 | Host connection is lost if attaching to running bypass with UDE |
| #588875 | BDR not functioning when ECU has continuous running reset. |
| #587524 | XETKS20 behavior is changed with HSP 11.7. regarding debug arbitration |
| #593528 | Unable to avoid cpu mismatch message on TC29x projects |
| #592837 | Access to ED RAM could fail while concurrently using a debugger by debug api |

3.1.18 New with HSP11.8.0

| Issue Identifier | Description |
|------------------|--|
| #588791 | Calibration not working on some PD devices with (invalid calibration handle) |
| n/a | Support TC39xED_B and TC38xx |
| n/a | XCP Event if CPU type is not matching A2L file |

3.1.19 New with HSP11.7.0

| Issue Identifier | Description |
|------------------|--------------------------|
| n/a | Added support for LERTv3 |

3.1.20 New with HSP11.6.0

| Issue Identifier | Description |
|------------------|---|
| n/a | Improved stability for XCP debugging feature |
| 575539 | Lauterbach Trace32 connected via XCP and INCA measurement in parallel leads to watchdog reset of XETK |
| 571863 | Lost connection after ECU shutdown |

3.1.21 New with HSP11.4.0

| Issue Identifier | Description |
|------------------|--|
| n/a | Support Feature "ECU_DEFINED_ERRORCODES" |
| n/a | Support monitoring VDDSB RAM |

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3.1.22 New with HSP11.3.0

| Issue Identifier | Description |
|------------------|--|
| n/a | Coldstart Performance Improvements for DISTAB13 |
| n/a | Support dynamic EMU for ATI Vision |
| Call #547844 | Measurement with large EE containing 9000 measurements does not start with XETK |
| Call #541623 | Send keep-alives to detect connection losses |
| Call #547411 | After stopping and starting the OS (on ES910) the INCA measurement delivers no more data |
| Call #543394 | When using timer triggers, measurement setup can fail with "Number of possible direct triggers exceeded" |

3.1.23 New with HSP11.2.1

| Issue Identifier | Description |
|------------------|--|
| n/a | TC39x-ED (A-Step) supported |
| n/a | XCP Debugging Enhancement: Increased JTAG clock when playing debug sequences. |
| Call #543853 | Bypass counter is now incremented based on the value already set in ECU, not starting from 0. |
| Call #543854 | Distab17 change counter and event header now updated properly when Distab17 is used together with timer triggered rasters. |
| Call #543855 | Update to ensure INCA measurement does not stop if an RP system accesses an XETK event configured for both DAQ and STIM. |

3.1.24 New with HSP11.2.0

n/a

3.1.25 New with HSP11.1.0

| Issue Identifier | Description |
|------------------|---|
| n/a | Support of XCP Debugging Enhancements (New User Commands DBG_HALT_AFTER_RESET, DBG_SEQUENCE_MULTIPLE) |
| Call #524191 | DAP frequency switching is failing |

3.1.26 New with HSP11.0.1

Initial release of XETK-S20.1B.

4 Product Variants

The XETK-S20.1B can be purchased in one variant. For details refer to the user guide.

| | | | | |
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5 Hardware Modifications

5.1 General remarks to this chapter

Hardware issues or obsolete parts can make it necessary to modify the population of the XETK. Information about the modifications is listed underneath. The hardware state starts with version **D014/01**. For the version syntax please refer to chapter 2.1.

5.2 Hardware delivery condition

The hardware state **D014/01** will be delivered with all new shipments.

| | | | | |
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6 Firmware Modifications

6.1 General remarks to this chapter

The programmable logic code within the XETK-S20.1B is stored onto programmable logic devices (FPGA, CPLD). The first released firmware version is listed underneath. For the version syntax please refer to chapter 2.1.

6.2 First delivered version

| | |
|-----------------|--------|
| FPGA Work | 1.0.93 |
| Firmware Work | 1.0.62 |
| FPGA Rescue | 1.0.93 |
| Firmware Rescue | 1.0.62 |
| CPLD | 1.0.3 |

6.3 Current delivery condition

The following firmware versions will be programmed into all XETK-S20.1B shipments:

| | |
|-----------------|---------|
| FPGA Work | 1.9.5 |
| Firmware Work | 1.19.19 |
| FPGA Rescue | 1.9.5 |
| Firmware Rescue | 1.19.19 |
| CPLD | 1.0.3 |

In case of any problems the above mentioned firmware can be programmed to the XETK by using HSP 14.3.0. This HSP version is similar to the currently delivered XETK products. Newer HSP versions could contain bug fixes and / or new features.

Attention: For updating the XETK - FPGA with a later version by using the HSP Firmware update tool, all XETK - packages will be updated one after another and this will last a few minutes.

| | | | | |
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7 Abbreviations

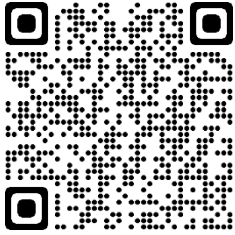
| | |
|-------------------------|---|
| XETK | Product (emulator test probe) which can directly be connected to the tools PC |
| INCA | Measurement and Calibration Software of ETAS |
| ASCET-RP | Rapid Prototyping Software of ETAS |
| INTECRIO | Rapid Prototyping Software of ETAS |
| XETK Configuration Tool | Configuration Software, in order to configure a XETK |
| HSP | H ardware S ervice P ack; ETAS product which includes the firmware for the complete ETAS hardware, shipped together with INCA but also available as standalone product, download at ETAS homepage possible |
| firmware | Software for MC hardware; necessary for implementation of new features or bug fixes |
| Hot-fix | Software bug-fix for a refresh version |
| tool-chain | MC hardware (e.g. ES690) and software (e.g. INCA) |
| MC | M easurement & C alibration |
| RP | R apid P rototyping |
| CPLD | C omplex P rogrammable L ogic D evice |
| FPGA | F ield P rogrammable G ate A rray; interface component to the application hardware |
| PCB | P rinted C ircuit B oard |
| DPR | Dual Ported RAM; special RAM onto the ETK which allows an access from ECU and application hardware at the same time |
| /CS | Chip select |

| | | | | |
|----------|---------------|-------|----|---------------|
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| Title : | Release-Notes | | | |

8 Contact Information

8.1 Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the website: www.etas.com/hotlines



8.2 ETAS Headquarters

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