

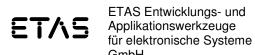
ETAS Entwicklungs- und Applikationswerkzeuge für elektronische Systeme GmbH

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Product :	ETKS-3.0, ETK-S	ETKS-3.0, ETK-S3.0_SET				
Title :	Change Information	tion				
File:	ETKS3.0_Change	e_Information_V04.doc				
TTN:	F-00K-104-060,	F-00K-104-304				
Comments :	FPGA version: V2	Currently shipped: 25C010 FPGA version: V25 Hardware-state: C010				
Created:	Name Higgins	Department ETAS-PHW/EES1	Signature Higgins	Date 04.12.2009		
Released:	Name Collins	Department ETAS-PHW/EES22	Signature Collins	Date 04.12.2009		

Changes

Revision	Description	Date	Name	Signature
01	21B010- Initial version	18.08.2005	Higgins	Higgins
02	23C010- FPGA update: Brain Dead Flashing Hardware update: Removed PCB trace on Reset signal	12.01.2006	Higgins	Higgins
03	24C010- FPGA update: Added Trigger Direct Measurement, updated ECU reset monitoring behavior, reduced current feedback on JTAG signals	04.12.2007	Higgins	Higgins
04	25C010- FPGA update: Removed initialization of Nexus Port Configuration Register (PCR).	04.12.2009	Higgins	Higgins

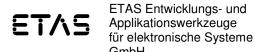


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1 General remarks to this document

This document consists of three main parts.

Chapter 2 contains general information about the required tool-chain to use this ETK. Two different items are described.

- Explanation of the version-system of the ETK-S3.0
- The required versions of software (INCA / ASCET / INTECRIO), HSP (calibration hardware firmware of e.g. ES59x, ES690, ES1232, ...) and ETK hardware. Additionally other requirements for running the ETK.

Chapter 3 contains information about PLD-Code changes concerning this ETK

Chapter 4 contains information about hardware changes concerning this ETK



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2 Tool-Chain Information

2.1 Version-Syntax of the ETK-S3.0

The ETK-S3.0 version information is located on the sticker of the ETK or can be read out of the ETK using the ETK-Configuration Tool.

The version information has the following syntax: aacddd/ee

PLD-Code Information:

aa: FPGA-Code version (10, 11, 12...) see chapter 3

Hardware-Information:

d: PCB version (A, B, C, ...)

ddd: Hardware state of the PCB (010, 011, 012, ...) see chapter 4

ee: Assembly variant of the PCB (00, 01, 02, ...)

The first delivered hardware state of the ETK-S3.0 was **21B010/00**.



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2.2 Version information of the Tool-Chain components

To get this ETK 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 ETK running please contact our local customer support or sales representative.

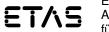
Name	Needed version	Remarks
HSP	V5.0	Note: HSP V6.1 required to configure new Reset monitoring mechanism or used trigger direct measurement introduced with HDC v2.4
ES690	V10.0.2	Supported
ES59x	V10.0.2	Supported
ES910.2	HSP V5.1.1	Supported
ES1000.2/3 – system	V10.0.2	Supported with ES1232
MAC2, ES1000.1, ES1200/01, and ES1231		Not supported
Software		
INCA	V5.4	Note: INCA V6.1 required to configure new Reset monitoring mechanism or used trigger direct measurement introduced with HDC v2.4
ASCET-RP	V5.4.1	
INTECRIO	V2.0	

List of officially supported Freescale microcontrollers:

- MPC5534
- MPC5554
- MPC5553
- MPC5565
- MPC5566
- MPC5567
- MPC5674F (FPGA v2.5 required)

The registered user will automatically receive the newest INCA-version (CD-ROM) Updates or refreshes can be downloaded from the ETAS homepage:

http://de.etasgroup.com http://en.etasgroup.com



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3 PLD-Code Changes

3.1 General remarks to this chapter

The programmable logic code within the ETK-S3.0 is stored onto programmable logic devices (FPGA). The FPGA-code starts with version 2.1. For the version syntax please refer to chapter 2.1.

3.2 FPGA-Code version 2.1 was the first delivered version

3.2.1 Details of change

Version 2.1: Initial version, dated August 18, 2005

Version 2.3: Update file dated January 12, 2006

Request for Brain Dead Flashing Support Issue:

Remedy: New FPGA file

Version 2.4: Update file dated December 4, 2007

Issue: Request for new reset monitoring mechanism and Triggered Direct

Measurement support. Report of current back feeding on JTAG pins

under special conditions while the ECU is powering down.

New FPGA file Remedy:

Version 2.5: Update file dated October 1, 2009

Remove setup of the Nexus PCR register to avoid setting invalid Issue:

values on future microcontroller versions.

New FPGA file Remedy:

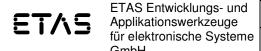
Attention: For updating the ETK - HDC with a later version by using the

ETK - configuration tool, all ETK - FPGA - packages will be updated

one after another and will last a few minutes.

3.2.2 Delivery condition

The FPGA version **2.5** will be programmed into all new shipments.



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4 Hardware Changes

4.1 General remarks to this chapter

Hardware problems or obsolete parts can make it necessary to change the manufacturing of this ETK. Information about the changes is listed underneath. The hardware-state starts with version B010. For the version syntax please refer to chapter 2.1.

4.2 Hardware version B010 was the first delivered version

4.2.1 Details of change

Version B010: Initial version

Version C010:

Issue: Debugger Reset pin connected to FPGA without 5V protection.

Remedy: Remove trace to FPGA, leave trace to ECU connector.

4.2.2 Delivery condition

The hardware-state **C010** will be delivered with all new shipments. ETKs with 'older' hardware-states can not be modified to the current valid state.



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5 Abbreviations

ETK	Emulator test probe	
ES1000	VME - system, successor of INCA-VME	
INCA-VME	Old VME - system for MC and RP	
ES690	MC hardware, successor of MAC2	
MAC2	Old MC hardware	
INCA	MC software, successor of VS100	
VS100	MC software	
ETK Configuration Tool	Configuration Software, in order to configure an ETK,	
	successor of the old DOS tool	
DOS ETK-Config-Tool	Old configuration software, in order to configure an ETK	
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 bugfixes	
Hotfix	Software bugfix for a refresh version	
Tool-chain	MC hardware (e.g. ES690) and software (e.g. INCA)	
MC	Measurement & Calibration	
RP	Rapid Prototyping	
PLD	Programmable Logic Device	
FPGA	Free Programmable Gate Array; interface component to	
	the application hardware	
PCB	Printed Circuit Board	