



Product:	ETK-V1.1	Rev :	01	Page 1 of 9
Title :	Change Information			

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File :	ETK-V1.1_Change_Information.doc			
TTNR :	ETK-V1.1-A F-00K-107-242 ETK-V1.1-B F-00K-107-243			
Comments :	Currently shipped: 30A010 FPGA version: V3.0 Hardware-state: A010			
Created:	Name Mai	Department MCD/PRM-H	Signature Mai	Date 2010-10-20
Released:	Name Buck	Department EPH1	Signature Buck	Date 2010-10-21

C h a n g e s

Revision	Description	Date	Name	Signature
01	30A010 - initial Version	2010-10-20	Mai	Mai

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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-V1.1
- The required versions of software (INCA / ASCET / INTECRIO), HSP (calibration hardware firmware of e.g. 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-V1.1

The ETK-V1.1 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:

c : 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-V1.1 was **30A010**.

2.2 Product Variants

In general the ETK-S4.2 can be purchased in two variants. The electrical and system functionality are identical for both variants. The mechanical dimensions differ a bit between the variants (with or without mounting holes).

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2.2.1 ETK-V1.1A

Item number	F-00K-107-242																					
Description	ETK-V1.1 Emulator probe with 1MByte EMU RAM for VertiCal Base Board of Freescale MPC55xx, MPC56xx and ST SPC56x																					
For details refer to datasheet	<table border="1"> <thead> <tr> <th>DIM</th> <th>MILLIMETERS</th> <th>INCHES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>54.00</td> <td>2.126</td> </tr> <tr> <td>B</td> <td>54.00</td> <td>2.126</td> </tr> <tr> <td>C</td> <td>27.00</td> <td>1.063</td> </tr> <tr> <td>D</td> <td>27.00</td> <td>1.063</td> </tr> <tr> <td>E</td> <td>27.00</td> <td>1.063</td> </tr> <tr> <td>F</td> <td>27.00</td> <td>1.063</td> </tr> </tbody> </table>	DIM	MILLIMETERS	INCHES	A	54.00	2.126	B	54.00	2.126	C	27.00	1.063	D	27.00	1.063	E	27.00	1.063	F	27.00	1.063
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E	27.00	1.063																				
F	27.00	1.063																				

2.2.2 ETK-V1.1B

Item number	F-00K-107-243																																				
Description	ETKV1.1 Emulator probe with 1MByte EMU RAM for VertiCal Base Board of Freescale MPC55xx, MPC56xx and ST SPC56x, with additional holes for mounting inside the ECU housing																																				
For details refer to datasheet	<table border="1"> <thead> <tr> <th>DIM</th> <th>MILLIMETERS</th> <th>INCHES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>69.00</td> <td>2.717</td> </tr> <tr> <td>B</td> <td>54.00</td> <td>2.126</td> </tr> <tr> <td>C</td> <td>34.50</td> <td>1.358</td> </tr> <tr> <td>D</td> <td>30.75</td> <td>1.211</td> </tr> <tr> <td>E</td> <td>30.75</td> <td>1.211</td> </tr> <tr> <td>F</td> <td>34.50</td> <td>1.358</td> </tr> <tr> <td>G</td> <td>27.00</td> <td>1.063</td> </tr> <tr> <td>H</td> <td>23.25</td> <td>0.915</td> </tr> <tr> <td>J</td> <td>23.25</td> <td>0.915</td> </tr> <tr> <td>K</td> <td>27.00</td> <td>1.063</td> </tr> <tr> <td>L</td> <td>3.50</td> <td>0.138</td> </tr> </tbody> </table>	DIM	MILLIMETERS	INCHES	A	69.00	2.717	B	54.00	2.126	C	34.50	1.358	D	30.75	1.211	E	30.75	1.211	F	34.50	1.358	G	27.00	1.063	H	23.25	0.915	J	23.25	0.915	K	27.00	1.063	L	3.50	0.138
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2.3 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.

The registered users with a valid INCA SW Service Contract will automatically receive the newest INCA-version (CD-ROM).

Updates or refreshes can also be downloaded from the ETAS homepage:

www.etas.com

2.3.1 Hardware support

The ETK-S4.2 is supported by ES690, ES59x, ES910 and ES100.2/3 system with ES1232.

2.3.2 Software and microcontroller support

List of supported microcontroller:

- Freescale Semiconductor

Microcontroller	HSP	INCA	ETK Drivers and Tools	ASCET-RP	INTECRIO
MPC5534	V4.1	V5.2.1	n.a.	V5.3	V1.1
MPC5553	V4.1	V5.2.1	n.a.	V5.3	V1.1
MPC5554	V4.1	V5.2.1	n.a.	V5.3	V1.1
MPC5674F	V4.1	V6.2.1	V2.1.8	V6.0.0	V3.1.0

- ST Microelectronics

Microcontroller	HSP	INCA	ETK Drivers and Tools	ASCET-RP	INTECRIO
SPC563M	V4.1	V6.2.1	V2.1.8	V6.0.0	V3.1.0
SPC564A	V4.1	V6.2.1	V2.1.8	V6.0.0	V3.1.0

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Table of tested Vertical Base boards:

Name	Vertical Base Board, used for tests @ ETAS
MPC5534	MPC5534_324
MPC5553	- MPC5553_324 - MPC5553_208 (requires ETK-V1 configuration)
MPC5554	MPC5554_416
MPC5674F	MPC5674F_516
SPC563M	SPC563M_176
SPC564A	SPC564A_176

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3 PLD-Code Changes

3.1 General remarks to this chapter

The programmable logic code within the ETK-V1.1 is stored onto programmable logic devices (FPGA). The FPGA-code starts with version 2.0. For the version syntax please refer to chapter 2.1.

3.2 FPGA-Code

Revision	File date	Description
Version 3.0	20.10.2010	Initial Version

Delivery condition:

The FPGA version 3.0 will be programmed into all new shipments.

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 are listed underneath. The hardware-state starts with version A010. For the version syntax please refer to chapter 2.1.

4.2 HW-state

Hardware-state	Description
A010	Initial Version

Delivery condition:

The hardware-state A010 will be delivered with all new shipments.

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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
ETK Configuration Tool	Configuration Software, in order to configure an ETK, successor of the old DOS tool
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	M easurement & C alibration
RP	R apid P rototyping
PLD	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