
ETAF9.0

Debug Adapter from OCDS1 to ETK

Data Sheet

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1 ETAF9.0

adapts to OCDS1 plug for debugger connection.

There are two specific applications.

- Adapt ECU-ETK-Connector to the Debugger
- Adapt ETK-Debugger-Conector to the Debugger

1.1 View

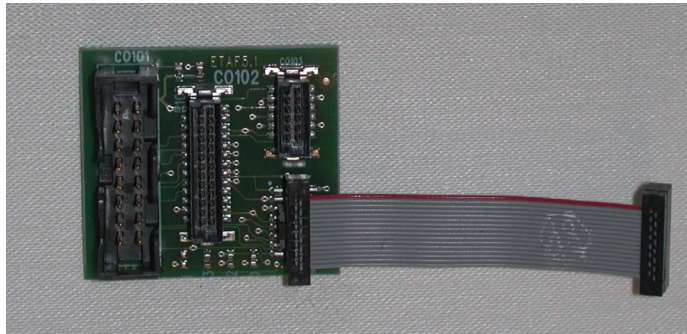


Fig. 1-1

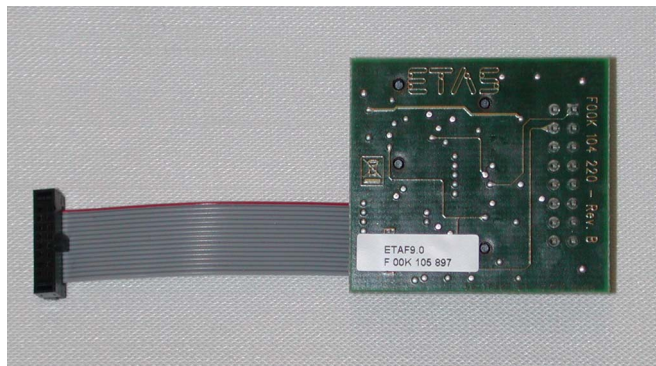


Fig. 1-2

2 Technical Data

2.1 Pin Assignment

2.1.1 Component Placement

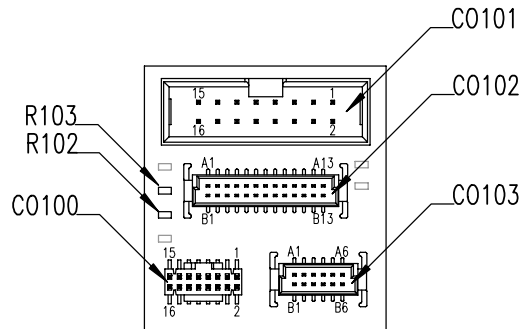


Fig. 2-1

2.1.2 CO100 - to ETK Debugger Connector

Pin	Signal	Description
1	TMS	JTAG Signal
2	VOUT	Target supply for sensing
3	TDO	JTAG Signal
4	GND	Signal Ground
5	/DBGDET	Debugger Detect Signal
6	GND	Signal Ground
7	TDI	JTAG Signal
8	/PORESET	Power On Reset
9	/TRST	JTAG Signal
10	/BRKOUT	OCDS Signal
11	TCK	JTAG Signal

Pin	Signal	Description
12	GND	Signal Ground
13	/BRKIN	OCDS Signal
14	/BREQ	Debugger Arbitration Signal
15	/BGRANT	Debugger Arbitration Signal
16	RESERVED3	Reserved Signal

2.1.3 CO101 - to Debugger

Pin	Signal	Description
1	TMS	JTAG Signal
2	VOUT	Target supply for sensing
3	TDO	JTAG Signal
4	/DBGDET	Debugger Detect Signal
5	/WDGDIS	Watchdog Disable Signal
6	GND	Signal Ground
7	TDI	JTAG Signal
8	/PORESET	Power On Reset
9	/TRST	JTAG Signal
10	/BRKOUT	OCDS Signal
11	TCK	JTAG Signal
12	GND	Signal Ground
13	/BRKIN	OCDS Signal
14	/BREQ	Debugger Arbitration Signal
15	/BGRANT	Debugger Arbitration Signal
16	RESERVED3	Reserved Signal

2.1.4 CO102 - to ECU

Pin	Signal	Description
A1	N.C.	not connected
A2	/BRKOUT	OCDS Signal
A3	N.C.	not connected
A4	/BRKIN	OCDS Signal
A5	TDO	JTAG Signal
A6	TMS	JTAG Signal
A7	TCK	JTAG Signal
A8	TDI	JTAG Signal
A9	N.C.	not connected
A10	/TRST	JTAG Signal
A11	/WDGDIS ^{*1}	Watchdog Disable Signal ^{*1}
A12	N.C.	not connected
A13	VDDP	Target supply for sensing
B1	N.C.	not connected
B2	N.C.	not connected
B3	N.C.	not connected
B4	/DBGDET	Debugger Detect Signal ^{*2}
B5	GND	Signal Ground
B6	GND	Signal Ground
B7	GND	Signal Ground
B8	GND	Signal Ground
B9	GND	Signal Ground
B10	/PORESET	Power On Reset
B11	N.C.	not connected
B12	N.C.	not connected
B13	N.C.	not connected

2.1.5 CO103 - to ECU

Pin	Signal	Description
A1	/TRST	JTAG Signal
A2	TCK	JTAG Signal
A3	/BRKOUT	OCDS Signal
A4	TDI	JTAG Signal
A5	TDO	JTAG Signal
A6	/WDGDIS *1	Watchdog Disable Signal *1
B1	/BRKIN	OCDS Signal
B2	GND	Signal Ground
B3	TMS	JTAG Signal
B4	/PORESET	Power On Reset
B5	VDDP	Target supply for sensing
B6	/DBGDET *2	Debugger Detect Signal *2

note

*1 If any other signal than /WDGDIS is connected to the the ECU Connector remove R102 at ETAF9.0 adapter

note

*2 Connect this Signal to GND at the ECU Connector. If any other Signal is connected to this pin remove R103 at ETAF9.0 adapter.

2.2 Mechanical Dimension

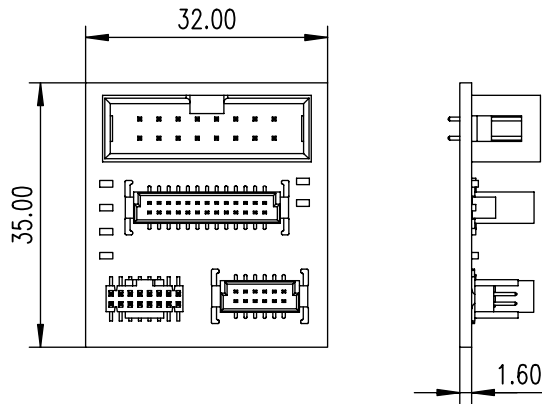


Fig. 2-2 ETAF9.0 PCB

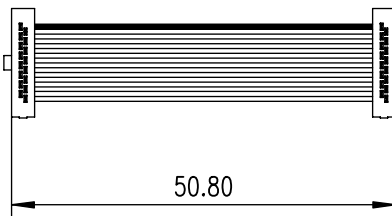


Fig. 2-3 ETAF9.0 Flatcable

2.3 Temperature Range

Condition	Temperature
Operating Temperature	-40°C - +105°C

3 Ordering Information

Type	Order-No
ETAF9.0	F 00K 105 897
ETAF1	F 00K 001 373
ETA11	F 00K 105 529

note

ETAF1 is needed to connect the ECU (26pin Erni) with the ETAF9.0. ETA11 is needed to connect the ECU (10pin SAMTEC) with the ETAF9.0.

4 **ETAS Contact Addresses**

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