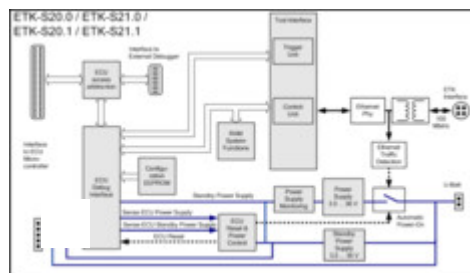


ETK-S21.1 – ECU Interface



CPU interface

Supported processors

NXP* MPC57xx and ST Microelectronics EMU57xx families
(*former Freescale)

For a complete list of supported microprocessors, please refer to the product's User's Guide.

Configuration

Project-specific configuration for memory configurations stored in EEPROM

Board

Dimensions
(HxWxD)

approx. 9.8 x 40 x 60 mm / 0.386 x 1.575 x 2.362 in

Power supply

Input voltage

5 V bis 36 V

Cranking voltage < 3 sec: 3 V

Input current at 12 V

approx. 100 mA normal operation

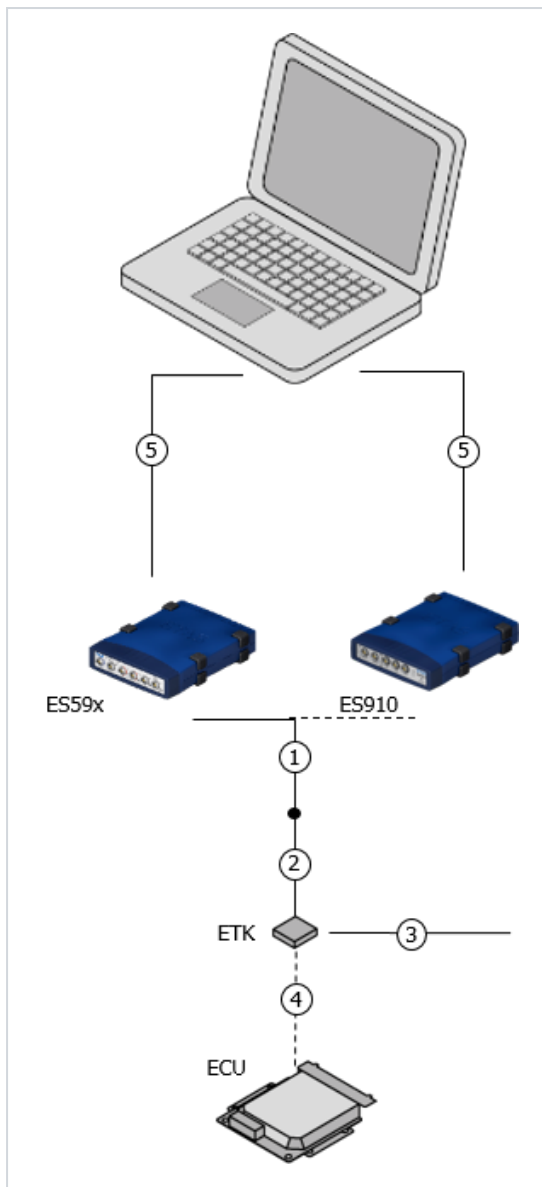
approx. 28 mA stand-by

Memory emulation

Emulation memory	Processor-specific
Measured data memory	Processor-specific
Host interface	
Serial interface	100 Mbit/s
	Double-shielded line, max. 30 m/100 ft
	Electrically isolated
Operation temperature	
Temperature range	-40 °C to +110 °C / -40 °F to +230 °F

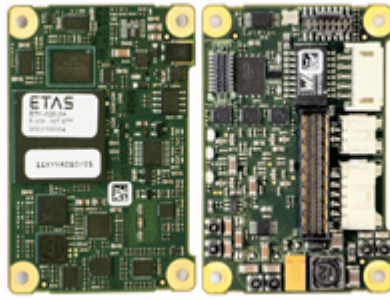
This product has been developed and released for use in automotive applications. For usage in other domains please contact your ETAS representative.

Ordering Information



- 1 – Interface Connection
- 2 – ETK Connection (for all 100 Mbit ETKs)
- 3 – Power Supply Connection
- 4 – ECU Connection
- 5 – Ethernet PC Connection

Order Name	Short Name	Order Number
ETK-S21.1		
ETK-S21.1 Emulator Probe for the JDP MPC57xx microprocessor family, ECU adaption via 10 SAMTEC 5 pin JST plug, with further adapter	ETK-S21.1A	F-00K-109-140



Optional Accessories for ETK-S21.1

1 – Interface Connection (all 100 Mbit ETKs to ES59x, ES690, ES910)

ETK Interface Cable 100 Mbit/s, Lemo 1B FFG - Lemo 1B FFG (4mc-4mc), 3 m	CBM150-3	F-00K-102-556
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ETK Interface Cable 100 Mbit/s, Lemo 1B FFG - Lemo 1B FFG (4mc-4mc), 5 m	CBM150-5	F-00K-102-557
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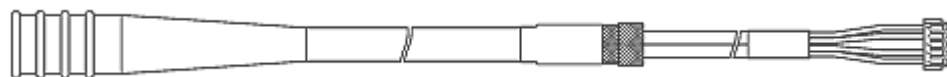


ETK Interface Cable 100 Mbit/s, Lemo 1B FFG - Lemo 1B FFG (4mc-4mc), 10 m	CBM150-10	F-00K-102-553
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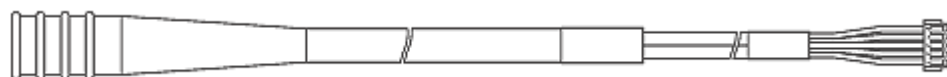


2 – ETK Connection (for all 100 Mbit ETKs)

ETK ECU Adapter Cable, Shield on ECU-Housing, Lemo 1B PHG - JST PHR (4fc-5fc), 0m6	KA54	F-00K-001-302
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ETK ECU Adapter Cable, Lemo 1B PHG - JST PHR (4fc-5fc), 0m6	KA55	F-00K-001-303
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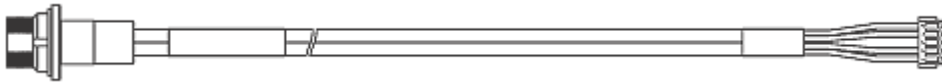
ETK ECU Adapter Cable, Shield on ECU-Housing,
Lemo 1B HMG - JST PHG (4fc-5fc), 0m085

CBAM200.2-0m085 F-00K-104-312



ETK ECU Adapter Cable, Shield on ECU-housing,
Lemo 1B HMG - JST PHG (4fc-5fc), 0m130

CBAM200-0m130 F-00K-104-852



ETK ECU Adapter Cable, pre-assembled into PG9
screwing, shield on ECU- Housing, Lemo 1B PHG -
JST PHR (4fc-5fc), 0m50

CBAM261-0m5

F-00K-107-754

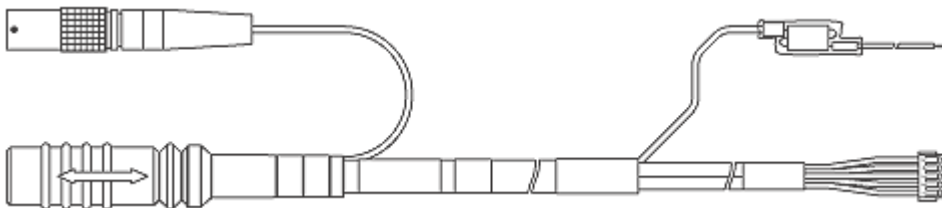


2&3 – Combined ETK ECU Adapter and Power Supply Cable (all 100 Mbit ETKs)

ETK ECU Adapter and Power Supply Cable, Lemo
1B PHG - JST PHR (4fc-5fc) / Lemo 0B PHG - open
wires (2fc-2c), 0m6

CBAM210-0m6

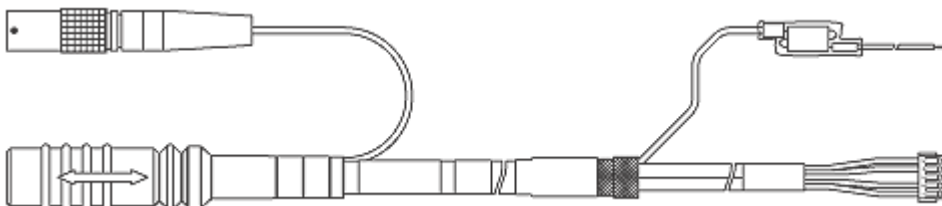
F-00K-104-873



ETK ECU Adapter and Power Supply Cable, Shield
on ECU-Housing, Lemo 1B PHG - JST PHR (4fc-5fc)
/ Lemo 0B PHG - open wires (2fc-2c), 0m60

CBAM220-0m6

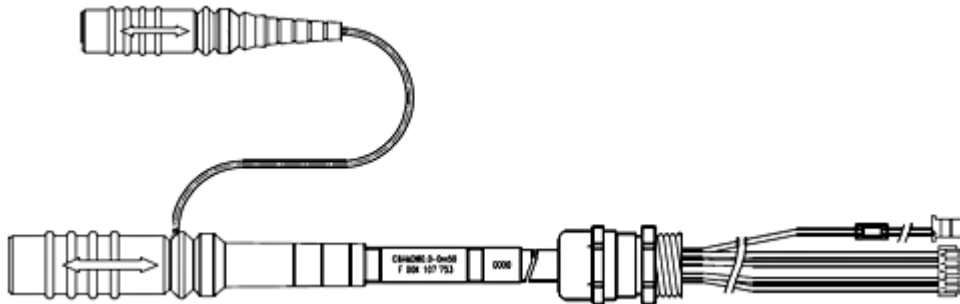
F-00K-105-075



ETK ECU Adapter and Power Supply Cable, pre-assembled into PG9 screwing, shield on ECU-Housing, Lemo 1B PHG - JST PHR (4fc-5fc) / Lemo 0B PHG - JST PAP (2fc-2fc), 0m50

CBAM260-0m5

F-00K-107-753



3 – Power Supply Connection

ETK Power Supply Cable, JST PAP – open wires (5fc-2c), 0m25

ETV3

F-00K-109-141



ETK Power Supply Cable for External Supply, with Filter Coil, Lemo 0B EGG – open wire (2fc-1c), 0m2

KA50

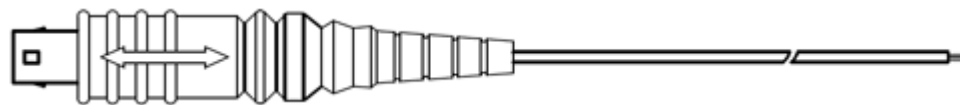
F-00K-000-940



External Power Supply Cable for ETKs, Lemo 0B - FGG open wires (2fc-1c), 2 m

K70.1

F-00K-109-270



ETK power supply for 4,3-36V DC input, with galvanic isolation

ETP2

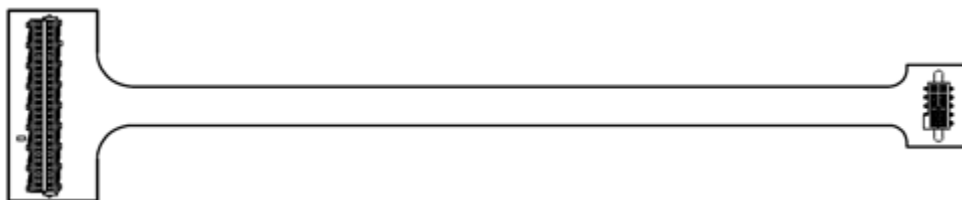
F-00K-104-010

4 – ECU Connection (ETK-S21.1)

ETAL1 ETK ECU Adapter, Erni - SAMTEC (50fc - 10fc), 0m136

ETAL1

F-00K-107-679



ETAL2 ETK ECU Adapter with short ED supply and GND lines, JST PAP - open wires (5fc - 2c+3c), 0m136 / 0m25

ETAL2

F-00K-107-680



ETAL3 ETK ECU Adapter, JST PAP - JST PAP (5fc - 5fc), 0m136

ETAL3

F-00K-107-681

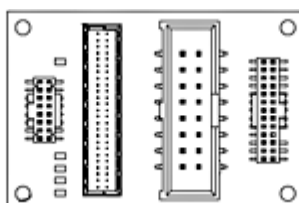


Debugger Connection

Debug Adapter from Debugger to ETK-S2x

ETAF11.0

F-00K-107-682

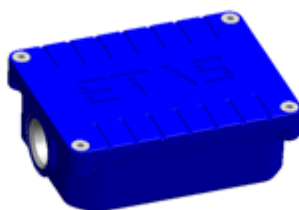


Housing

Water-proof case, designed for ETK-S4.x, ETK-S6.x and ETK-S2x

ETKS_C3

F-00K-107-683



Protection Cap (KA54, KA55, CBAM200, CBAM210, CBAM220)

Cap to protect open Lemo 1B sockets against dirt, cost effective

CAP_LEMO_1B_LC F-00K-105-683



5 – Ethernet PC Connection

Further information on the Ethernet PC Connection, can be found in the [cable page Ethernet Connection](#).

Note: This list contains only a selection of available adapters. A comprehensive overview is available in the User Guide of each ETK.