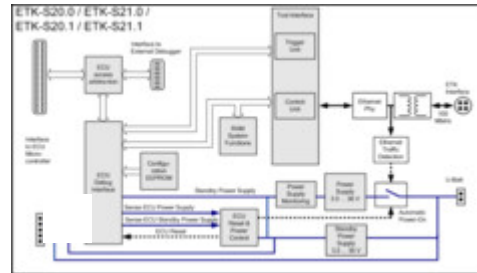


# ETK-S20.1A – ECU Interface



CPU interface

Supported processors

Infineon Aurix Family (TC2xx)

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: 3V

Input current at 12 V

approx. 100 mA normal operation

approx. 28 mA stand-by

Memory emulation

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Emulation memory	Processor-specific
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Measured data memory	Processor-specific
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Host interface

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Serial interface	100 Mbit/s
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Double-shielded line, max. 30 m/100 ft

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Electrically isolated

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Operation temperature

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Temperature range	-40 °C to +110 °C / -40 °F to +230 °F
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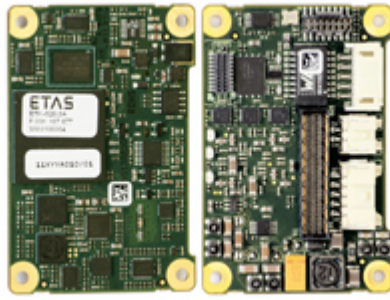
This product has been developed and released for use in automotive applications. For usage in other domains please contact your ETAS representative.

## 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	Length	Short Name	Order Number
ETK-S20.1			
ETK-S20.1 Emulator Probe for the Infineon AURIX microprocessor family, ECU adaption via 10 SAMTEC 5 pin JST plug, with further adapter		ETK-S20.1A	F-00K-109-139



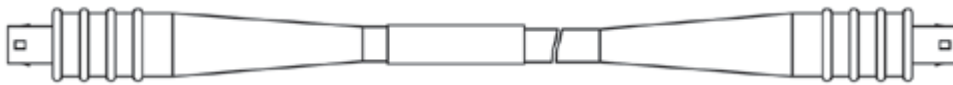
Optional Accessories for ETK-S20.1A

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

ETK Interface Cable 100 Mbit/s, Lemo 1B	3.00 m	CBM150-3	F-00K-102-556
FFG - Lemo 1B FFG (4mc-4mc), 3 m	9.84 ft		



ETK Interface Cable 100 Mbit/s, Lemo 1B	5.00 m	CBM150-5	F-00K-102-557
FFG - Lemo 1B FFG (4mc-4mc), 5 m	16.40 ft		

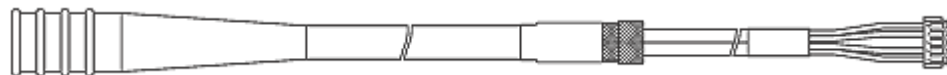


ETK Interface Cable 100 Mbit/s, Lemo 1B	10.00 m	CBM150-10	F-00K-102-553
FFG - Lemo 1B FFG (4mc-4mc), 10 m	32.81 ft		

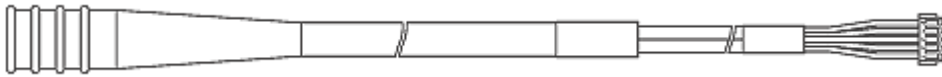


**2 - ETK Connection (for all 100 Mbit ETKs)**

ETK ECU Adapter Cable, Shield on ECU- Housing, Lemo 1B PHG - JST PHR (4fc- 5fc), 0m6	0.60 m 1.97 ft	KA54	F-00K-001-302
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ETK ECU Adapter Cable, Lemo 1B PHG - JST PHR (4fc-5fc), 0m6	0.60 m 1.97 ft	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 0.09 m CBAM200.2-0m085 F-00K-104-312  
0.30 ft



ETK ECU Adapter Cable, Shield on ECU-housing, Lemo 1B HMG - JST PHG (4fc-5fc), 0m130 0.13 m CBAM200-0m130 F-00K-104-852  
0.43 ft

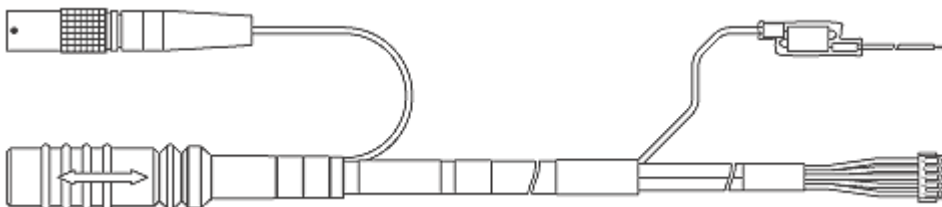


ETK ECU Adapter Cable, pre-assembled into PG9 screwing, shield on ECU-Housing, Lemo 1B PHG - JST PHR (4fc-5fc), 0m50 0.50 m CBAM261-0m5 F-00K-107-754  
1.64 ft

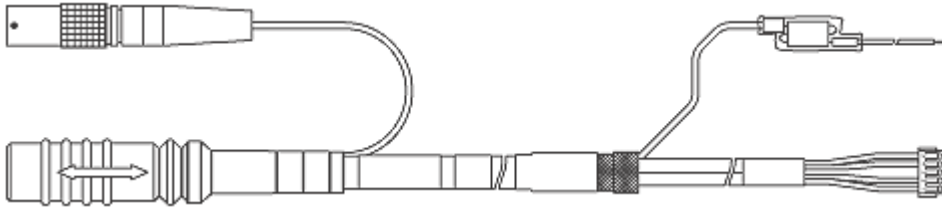


### 2&3 - Combined ETK ECU Adapter and Power Supply Cable (all 100 Mbit ETKs)

ETK ECU Adapter and Power Supply Cable, Lemo 1B PHG - JST PHR (4fc-5fc) / Lemo 0B PHG - open wires (2fc-2c), 0m6 0.60 m CBAM210-0m6 F-00K-104-873  
1.97 ft



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 0.60 m CBAM220-0m6 F-00K-105-075  
1.97 ft



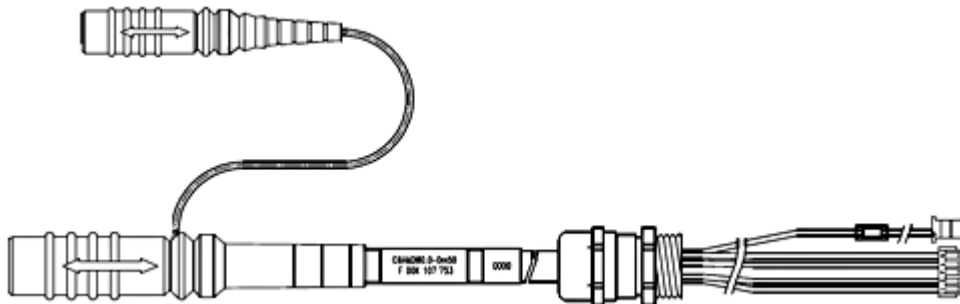
### ETK ECU Adapter and Power Supply

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

0.50 m  
1.64 ft

CBAM260-0m5

F-00K-107-753



### 3 - Power Supply Connection

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

0.25 m  
0.82 ft

ETV3

F-00K-109-141



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

0.20 m  
0.66 ft

KA50

F-00K-000-940

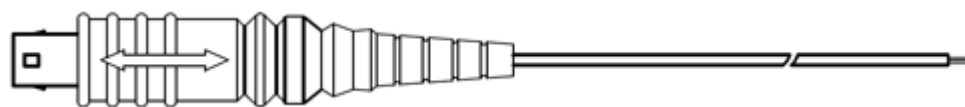


External Power Supply Cable for ETKs, Lemo 0B - FGG open wires (2fc-1c), 2 m

2.00 m  
6.56 ft

K70.1

F-00K-109-270

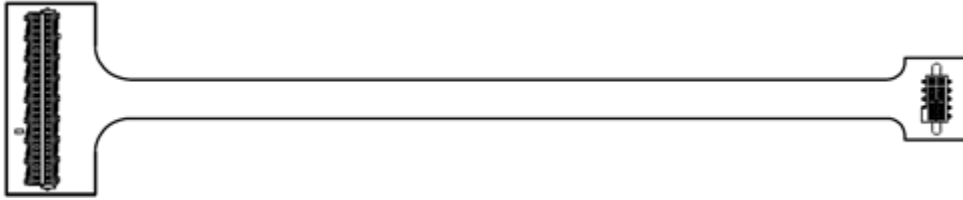


### 4 - ECU Connection (ETK-S20.1A)

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

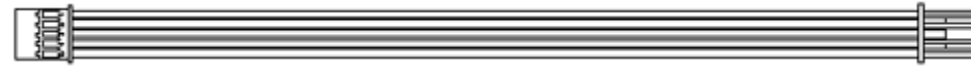
F-00K-107-680



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

ETAL3

F-00K-107-681

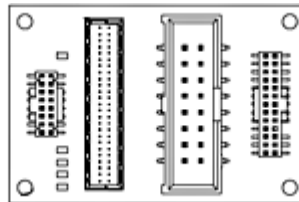


### Debugger Connection

Debug Adapter from Debugger to ETK-S2x

ETAF11.0

F-00K-107-682

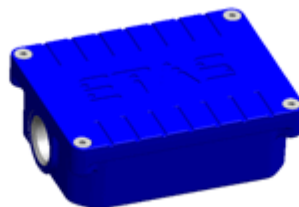


### Housing

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



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## 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.

