

# Automotive Ethernet-/ BR\_XETK interface module ES882



## Robust and precise timing, many interfaces, compatible standards

ETAS supports and facilitates the development of software-defined vehicle (SDV).  
ES882 comes with the following features:

### Areas of application

- Acquisition of measurement data from ECUs and buses
- Application, diagnosis, and flash programming of ECUs
- Interface for prototyping modules
- Simultaneous support of up to three BR\_XETKs via Automotive Ethernet
- Interface to ETAS software tools on user PC
- Measurements in the vehicle and on the test bench with high data rates
- Validations and application of networked electronic systems in combination with INCA (from V7.2.7)

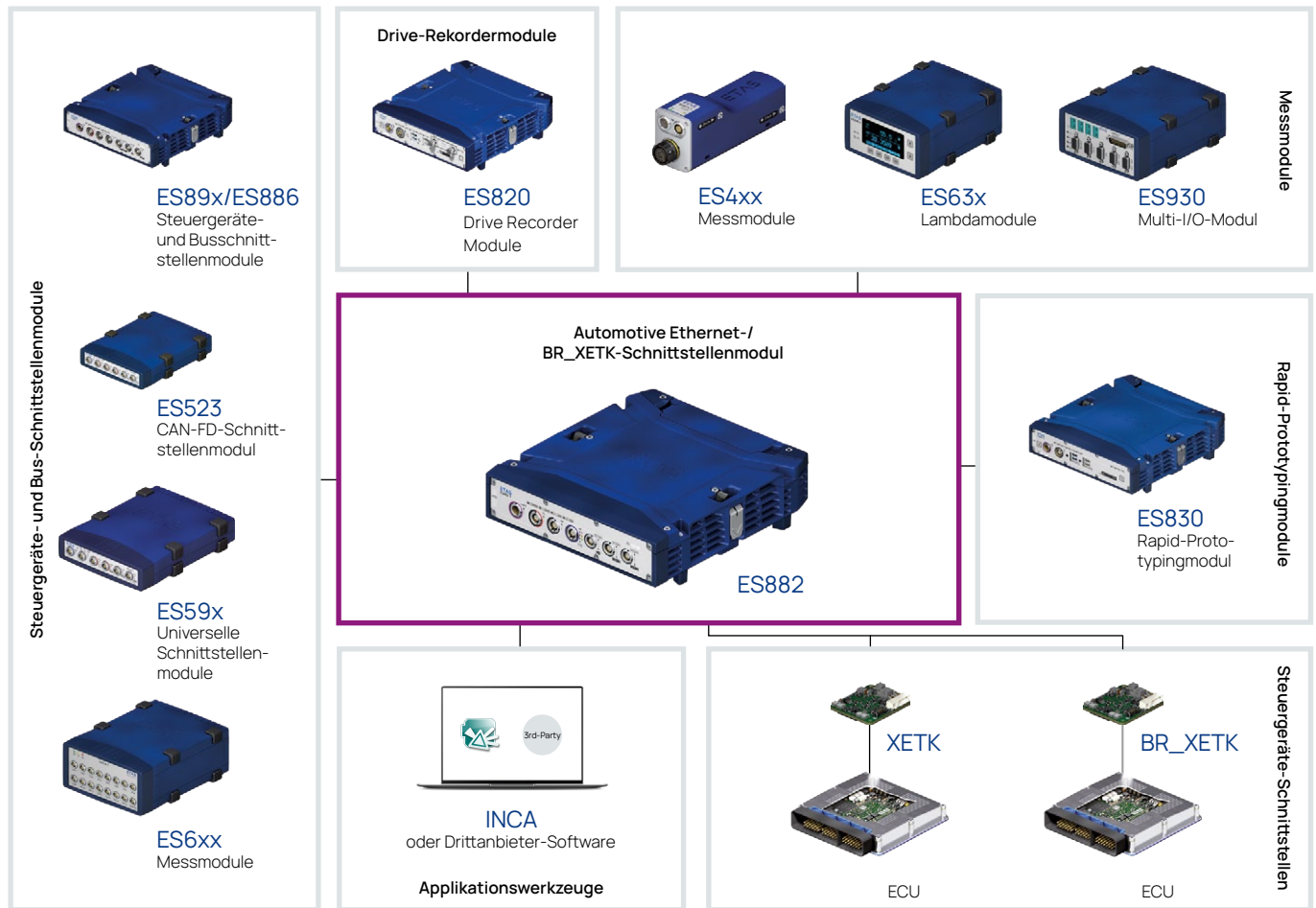
### Features

- Time-synchronous acquisition of all incoming signals (accuracy of time stamps greater than 1 microsecond)
- One gigabit Ethernet interface, one XETK/Fast Ethernet interface and three Automotive Ethernet/BR\_XETK interfaces
- Five independent CAN/CAN FD interfaces and an independent LIN interface
- LEDs for operating, interface, and synchronization status
- Robust metal housing (protection class IP44)

### Benefits

- An open and standard-compliant communication with ECU (e.g. with BR\_XETK) using the protocol XCP-on-Ethernet is possible
- Simple integration in heterogeneous-measurement setups and automation solutions with a central clock. Can be used as a synchronization master in accordance with the standard IEEE1588 (PTP)
- Full integration of the ES88x-/ES89x modules into other tools with C libraries provided by ETAS
- Diverse uses with various hardware modules and application tools

# Potential combinations of the ES882 with other ETAS products



## Technical Data

<b>Size</b>	Dimensions (H x W x D)	63 mm x 215 mm x 241 mm
<b>Environment</b>	Temperature range	-40 °C to +70 °C (operation), bis +85 °C (storage)
	Robustness	Suitable for use in vehicles (Mechanical shock, vibration, fall, temperature alteration)
	Protection Class	IP44
<b>Power supply</b>	Operating voltage	6 V until 32 V DC
<b>Power consumption</b>	Operation	Typically 2,2 A at 12 V DC (without power supply to connected modules)
	Standby	Typ. 17 mA in standby at 12 V DC, max. 25 mA
	Energy management (wake-up/standby)	On/Off when Ethernet transmission starts/stops (PC or upstream module On/Off), configurable: "On" when CAN/CAN FD transmission starts
<b>Interfaces</b>	Gigabit Ethernet	1x 100/1000 Base-T (HOST) (incl. IEEE1588 (PTP) TimeSync)
	Fast Ethernet	1x XETK ECU interface (incl. IEEE1588 (PTP) TimeSync). Alternatively: 1x 10/100 Base-T for the connection of measurement and interfaces modules (incl. ETAS TimeSync), e. g. ETAS 4xx, ES523, ES6xx Support of IEEE 1588 (PTP) time synchronization
	Gigabit Ethernet*	1x 10/100/1000 Base-T for the connection of measurement and interface modules (incl. IEEE1588 (PTP) TimeSync)
	Automotive Ethernet*	3x 100 Base-T1 AE/OPEN Alliance BroadR-Reach, all of them can be used for BR_XETKs (incl. IEEE1588 (PTP) TimeSync)
<b>Bus interfaces</b>	CAN/CAN FD/LIN	5 independent CAN interfaces: CAN FD or CAN High-Speed, CAN protocols CAN V2.0a and CAN V2.0b; 1x independent interface LIN V2.1

\* Supports the connection of external XCP-on-Ethernet devices

Are you interested in ETAS products?  
Please contact our sales specialists: [info@etas.com](mailto:info@etas.com)

More product information:  
[www.etas.com/es882](http://www.etas.com/es882)

ETAS/COM2\_AH/12/2022