

## Ixxat FRC-EP190 Plus CANonly

Item number: 1.13.0094.10107

The Ixxat FRC-EP190 Plus CANonly is a compact solution for automotive uses, focusing on CAN-based applications. Featuring LIN and eight CAN channels, thereof four CAN FD and two CAN low-speed capable, it's ideal for logging, gateway and residual bus simulation applications – easily configurable with the Ixxat Advanced Configuration Tool (ACT).



*Configurable automotive platform (4 x CAN + 4 x CAN FD, 2 x CAN LS)*

### Features and benefits

- ✓ **Go-to solution for demanding network requirements**  
The FRC-EP190 enables easy integration of multiple bus systems into a single, compact device. This is essential for e-mobility projects and complex industrial applications.
- ✓ **Multi-connectivity with various interfaces**  
Additional interfaces included: 2 x LIN, 1 x Ethernet (10/100 Base-T), 2 x Analog in, 4 x Digital in/out (A/E), USB 2.0 device and host and a SDHC slot. Further extension options are available.
- ✓ **Improved data management for efficient engineering**  
The FRC-EP190 series streamlines data management and protocol handling, optimized for automotive testing, logging and gateway operations. Ensuring easy integration and reliable performance.
- ✓ **Embedded platform with own processing power**  
All applications run on the device, a PC is only needed for configuration or stimulation/visualization of data, as the actual intelligence is outsourced to the embedded platform.
- ✓ **Overvoltage protection**  
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Quick and easy configuration through ACT support**  
The platform is supported by the Ixxat ACT (Advanced Configuration Tool), a Windows-based tool to easily configure the device via drag and drop. Most use cases can be solved by using ACT Freeware.



General	
Net Width (mm)	110
Net Height (mm)	180
Net Depth (mm)	50
Net Weight (g)	915
Packed Weight (g)	915
Operating Temperature °C Min	-40
Operating Temperature °C Max	80
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, non-condensing
Current Consumption Type Value at Vcc Nom (mA)	420 mA (12 V DC)
Input Voltage (V)	6 V to 36 V DC
Power Connector	3-pole
Isolation	The FRC-EP190 features four interface islands (X1, X2, X3, X4), each galvanically isolated from the others. Within each island, interfaces for CAN-FD, CAN high-speed, digital I/O, and LIN are interconnected. The cable's shielding or the D-Sub connector's metal collar is directly connected to the housing for enhanced integrity.
Configuration	The Ixxat FRC-EP190 is a Linux platform that is able to work standalone without any connected PC. For the standalone function a configuration is needed, that can be created and downloaded to the device via the PC based Ixxat Automotive Configuration Tool (ACT) and an USB connection.
Content of Delivery	FRC-EP190 device, user manual, power supply cable (2 m, 3-pin Binder socket to 3 x 4 mm banana plugs), USB 2.0 cable (2 m, Type A to Mini Type B), Ethernet cable (2 m), runtime licences for Gateway and RBS, available as download: Advanced Configuration Tool (ACT)
Mounting	Panel mount
Housing Materials	Aluminum
Packaging Material	Cardboard



## Identification and Status

Product ID	1.13.0094.10107
Country of Origin	Germany
HS Code	8517620000
Export Control Classification Number (ECCN)	EAR99
Supply Risk Factor ERP	Used in Volume 01

## Physical Features

Connectors / Input / Output	3 x RJ45 connectors (1 x Ethernet, 2 x fieldbus), 1 x USB type B port, 1 x USB type A port, 1 x SD card slot, 1 x 7-pin Binder female panel mount connector (remote/debug), 1 x 3-pin Binder male panel mount connector (power), 4 x D-Sub 9 male connectors, 1 x D-Sub HD15 male connector
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## CAN Features

CAN Mode	CAN high-speed (ISO 11898-2), CAN low-speed (ISO 11898-3)
CAN Transceiver	TI SN65HVD251

## CAN FD Features

CAN FD Transceiver	TI SN65HVD251
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## LIN Features

LIN Transceiver	TJA1020
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## Certifications and Standards

Protection Class IP	IP42
ETIM Classification	EC001604
WEEE Category	IT and telecommunications equipment



## Use Case

