

Ixxat FRC-EP190 FlexRay Plus 4

Item number: 1.13.0094.10507

The Ixxat FRC-EP190 FlexRay Plus 4 is a powerful solution for automotive uses. It features eight CAN channels, thereof four CAN FD and two CAN low-speed capable. Additionally, it offers FlexRay, LIN and Digital in/out functionalities. This makes it an ideal solution for logging, gateway, and residual bus simulation tasks. Configuration is easily done with the Ixxat Advanced Configuration Tool (ACT).



Configurable automotive platform (1x FlexRay, 8x CAN, thereof 4x CAN FD)

Features and benefits

- ✓ **Go-to solution for demanding network requirements**
Enables easy integration of multiple bus systems into a single, compact device. This is essential for e-mobility projects and complex industrial applications.
- ✓ **Improved data management for efficient engineering**
Streamlines data management and protocol handling, optimized for automotive testing, logging and gateway operations. Ensuring easy integration and reliable performance.
- ✓ **Overvoltage protection**
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Multi-connectivity with various interfaces**
Additional interfaces included: 2 x LIN, 1 x Ethernet (10/100 Base-T), 4 x Digital in/out (A/E), USB 2.0 device and host and a SDHC slot. Further extension options are available.
- ✓ **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.
- ✓ **Quick and easy configuration through ACT support**
The FRC-EP series 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 shielding of the cable and/or the metal collar of a D-Sub connector is directly connected to the housing.
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	Aluminium
Packaging Material	Cardboard



Identification and Status

Product ID	1.13.0094.10507
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

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
Contains Battery	No

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
CE	Yes
TELEC	No
WEEE Category	IT and telecommunications equipment



Use Case

