

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. It features eight CAN channels, thereof four CAN FD and two CAN low-speed capable. Additionally, it offers LIN, Digital in/out, and Analog in 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 (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.

Support for Linux and QNX

Using the free ECI driver package, the hardware can be easily integrated into Linux-based environments as well as into applications under the QNX real-time operating system. 32- and 64-bit ARM (Raspberry Pi) and Intel X86 platforms are supported.

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.

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.



Ixxat FRC-EP190 Plus CANonly



| 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 | Aluminium |
| Packaging Material | Cardboard |

Ixxat FRC-EP190 Plus CANonly



| Identification and Status | | |
|--|--|--|
| Product ID | 1.13.0094.10107 | |
| 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 | |
| LIN Features | | |
| LIN Transceiver | TJA1020 | |
| Certifications and Standards | | |
| Protection Class IP | IP42 | |
| ETIM Classification | EC001604 | |
| CE | Yes | |
| TELEC | No | |
| WEEE Category | IT and telecommunications equipment | |



Ixxat FRC-EP190 Plus CANonly







