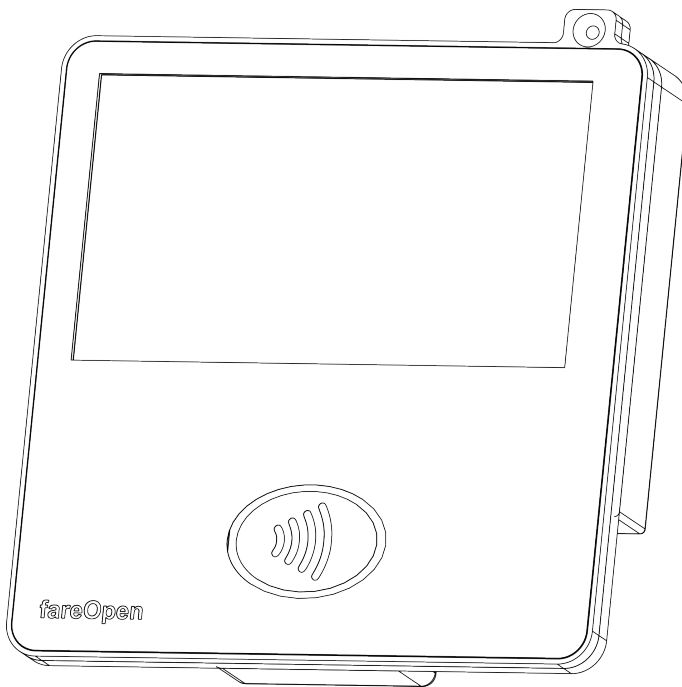




F910 and F930 are public transport grade contactless validators for open and close loop payment operations. F9XX series support high end **MIFARE Plus** and **DesFire** contactless cards family under ISO14443A and also support **EMV L1&L2** level contactless **Credit Card** payments.

F9XX validators have built-in QR Code reader and QR generation on screen functionality for wider mobile and printed type QR tickets. Devices can handle fast online transaction validation and also support different white lists for time limited, route based reservation based ticketing operations.

Card top-up for **MIRAFE PLUS** and **DesFire** type cards are possible with both under online and temporarily offline conditions thanks to token based secure structure. Two SAM slots are available for payment and device security protocols.

F9XX series offer IPS displays with 172 degrees viewing angles and up to 900 NITS brightness levels which auto adjusts depending on the environment light level. Real audio and with speech synthesizer are also supported for both models.

fareOpen series devices are designed for in-vehicle operation, with IP2X protection level. Devices accept 9-36V DC power input and PoE power prioritizing DC power input.

Turnstile versions for F9XX are available upon request. Devices support two inputs and two outputs as standard IO's. Vehicle unique ID identification is a standard feature and optional CAN-FD and RS485 ports also available depending on the purchase configuration.

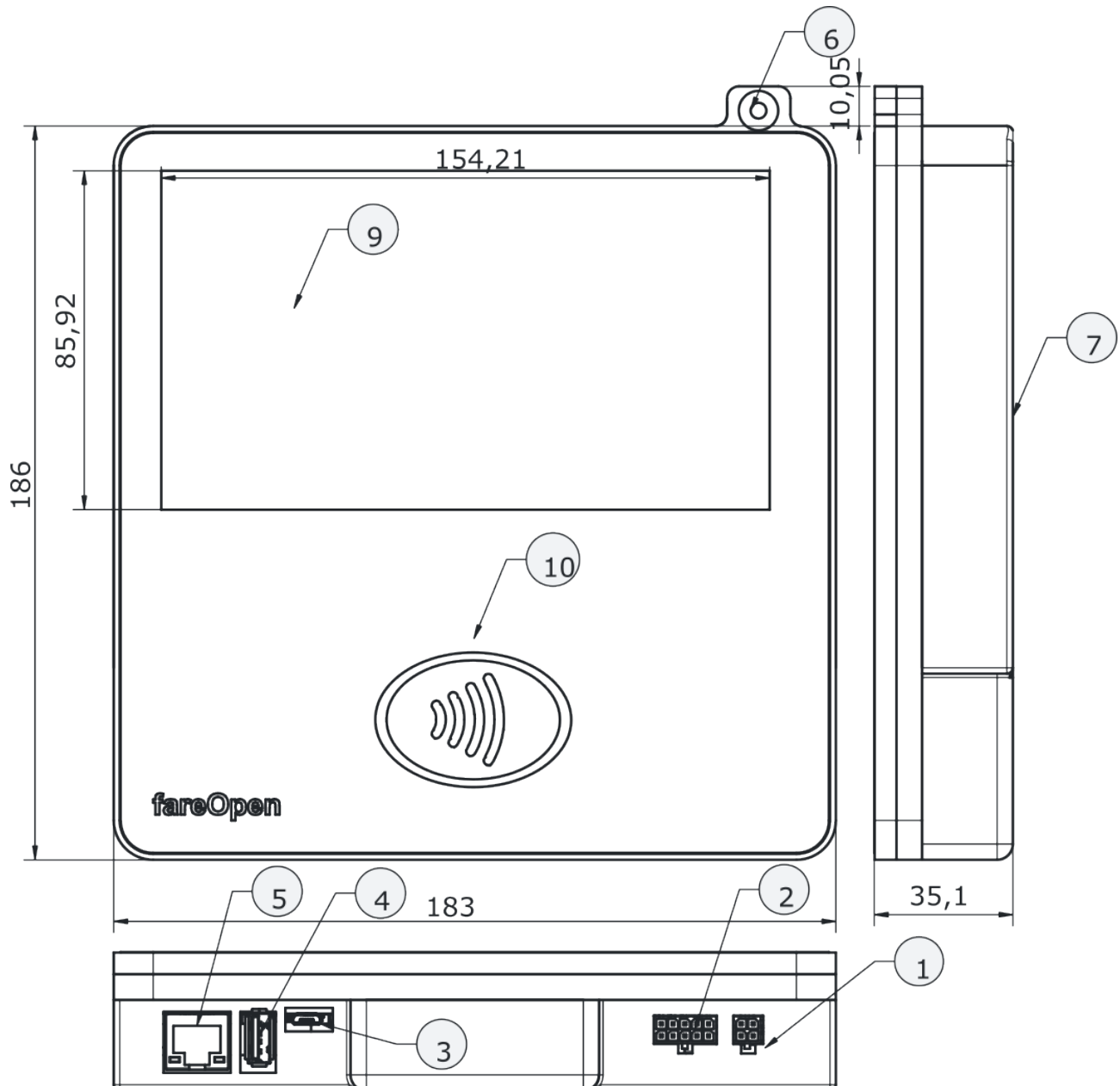
F910 and F930 are functionally identical units. F930 includes a linux supporting CPU with larger RAM and program memories to support up-to-date linux systems. This would be useful if an existing software is to be ported or memory requirements are beyond general fare collection operations. For a clean sheet software or a comprehensive porting of existing codes is possible, F910 offers same functionality with substantial cost reduction without a significant compromise.

Technical Details

Dimensions	186mm x 183mm x 32mm (without mount piece)
Display	1024x600 IPS Display, 900 Nits, 172 Degree viewing Angle
CPU	F910 RISC-V 360MHz F930 TX8M IMX8 Series 1.5GHz
Memory	F910 32MB RAM 16MB NorFlash 16GB SDIO Gen3 Card F930 1GB RAM 512MB eMMC 16GB SDIO Gen3 Card
Ethernet	10/100 BaseT Ethernet
Power Input	9-36V DC 10Watt, Poe IEEE802.3af
I/O	2 Opto-isolated Inputs, 2 Relay Outputs (NO)
Connectivity	4G-LTE Modem Optional
Operating System	F910 FreeRTOS / SafeOS F930 Linux kernel 5.10
Contactless Interface	Contactless EMV L1 & L2 certified Supports Apple VAS & Google Smart Tap, MIFARE Suite & FeliCa Supports the latest Visa, Mastercard, American Express & Discover L2 kernels & extensive international kernels Supports major transit kernels like Visa, American Express, Discover & InteracTransit
QR Reader	QR Code, Data Matrix, PDF417, Micro QR, Micro PDF417 Viewing angle Hor 67 Ver 53 Degrees Scan Roll: 360° Pitch: 65° Yaw: 65°
Audio Output	5 Watt read audio and speech synthesizer

Dimensions

All dimensions are in mm.



1. DC Power input and vehicle unique ID port
2. RS485, CAN and I/O Port
3. USB-OTG Port
4. USB Host Port
5. Ethernet and PoE Connector
6. QR Code Scanner Camera
7. VESA 75 Mount
8. Reset pin hole
9. Display
10. Contactless Reader