

V2X-AIR

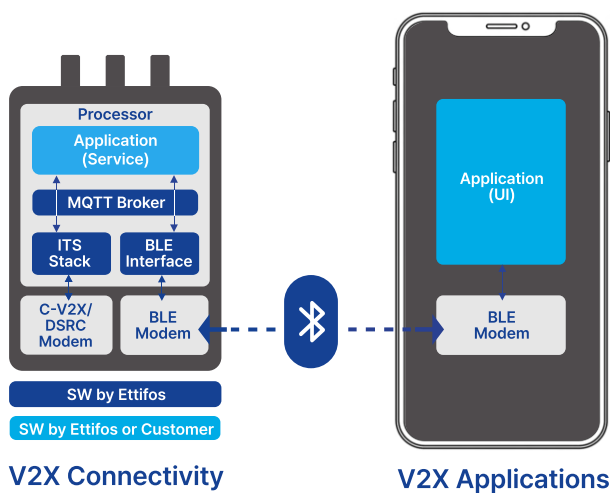
A cost-effective and high-performance compact Aftermarket V2X Device (AVD) and On-board Unit (OBU) that makes your journey safer, smarter, and more efficient

✦ Features

- C-V2X (3GPP Release 14) or DSRC (IEEE 802.11p)
- Embedded Ettifos V2X stack
- Advanced GNSS
- USDOT SCMS / EU PKI compatible
- Smartphone HMI connection via Bluetooth 5.0



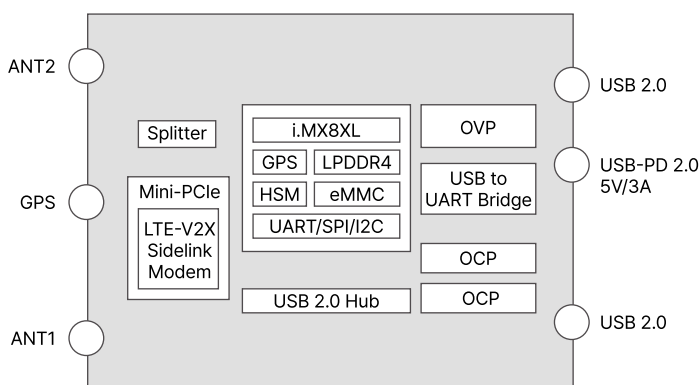
SW Architecture



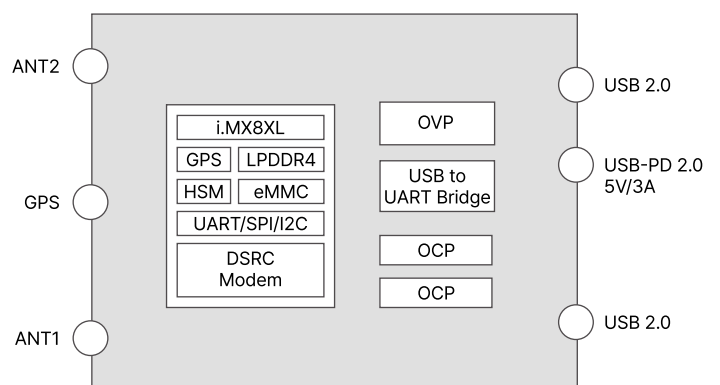
- MQTT (MQ Telemetry Transport) broker-based API
- Sample codes for developing service application provided
- Service application on V2X-AIR can be tailored by Ettifos for customer
- Sample codes for developing Android application on smartphone provided
- Maximum 255 bytes of data transfer using extended advertising in Bluetooth 5.0
- BLE data type in JSON format

HW Architecture and Connectors

C-V2X Version



DSRC Version



Antenna Ports

ANT1	V2X antenna port (MAIN)
ANT2	V2X antenna port (DIV)
GPS	GPS antenna port

I/O Interfaces

USB 2.0	Type-A port for interface dongles. Supports USB SS, HS, FS, LS.
USB-PD 2.0 5V/3A	Type-C port for power and debugging.

Inquire now through email.

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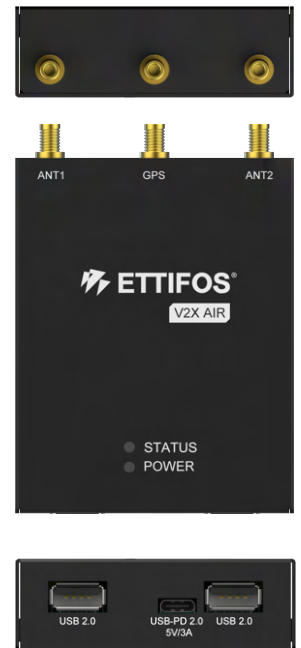
For more info



scan here

Specifications

Core Features	
V2X Radio Variants	Qualcomm 9150 (C-V2X; 3GPP R14 PC5) <u>or</u> NXP RoadLink SAF5400 (DSRC; IEEE 802.11p)
CPU	NXP i.MX 8XLite (Dual Core)
OS	Linux
Memory (RAM)	1GB LPDDR4
Storage (Flash)	8GB eMMC
Power Supply	5V/3A
Positioning	Advanced GNSS (1.5m CEP)
Tx Power	+23dBm
Bandwidth	10 and 20 MHz
Security	SXF1800
Temperature	-30°C to +85°C
Dimension	C-V2X Version: 72 (W) x 93 (H) x 23.3 (D) mm DSRC Version: 72 (W) x 95 (H) x 22.1 (D) mm



Connectors	
Antennas (SMA type)	2 x C-V2X <u>or</u> DSRC, 1 x GNSS
Interfaces	2 x USB 2.0 Type-A (For ETH, CAN, OBD-II, BLE and WiFi dongles)
Wireless Connectivity	Bluetooth 5.0 (Through dongle; USB peripheral)
Power	1 x USB 2.0 PD Type-C

Accessories
V2X Antenna x 2
GPS Antenna x 1
Power Cable x 1
Power Cigar Jack x 1
Bluetooth Dongle x 1
<u>Provided upon request:</u>
Device Bracket x 1

Standard Conformance	
V2X	SAE J2945/1 - 202004 SAE J3161/1 - 202409 SAE J3315 (WIP) SAE J2735 - 202409 SAE 3224 - 202208 IEEE 1609.3 - 2020, IEEE 1609.2 - 2022, IEEE 1609.2.1 - 2022 IEEE 802.11p ETSI EN 302 663 ETSI TS 103 836, TS 103 831, TS 103 900, TS 103 324
Certification	FCC, KC, CE*, OmniAir*, ITS Korea



V2X-AIR with device bracket for permanent installation.

*In progress

Ettifos is a 5G-focused V2X communication solutions provider founded in 2018. Our vision is to connect all entities in motion, creating safer, greener, and smarter roads for everyone. Always keeping the user in mind, Ettifos creates innovative, reliable, and customizable solutions for connected mobility communication, applications in autonomous driving, and connected mobility-related data services.

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