

Features

On-Board Unit (OBU) enables vehicle communication leveraging Cellular-V2X technology and a path to introduction of 5G technology

- C-V2X (3GPP release 14)
- V2X Stack & Apps included
- User Domain (Android OS) + Video/Audio Interfaces
- FOTA all CPUs
- 3 CAN + 1 J1939 + 4 GPIO
- LTE Cat4 + WiFi + BLE
- GNSS High precision (Dead-Reckoning)
- Security ready (Pilot/Test Certificates)

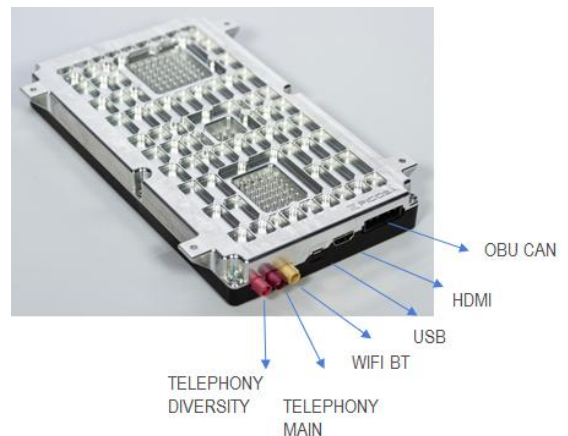
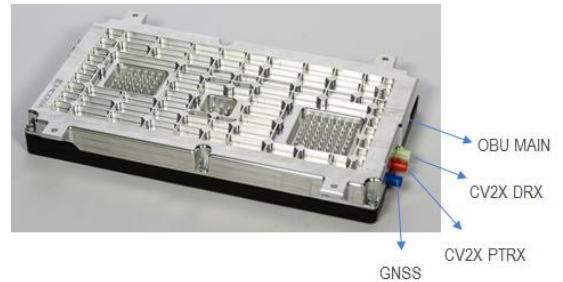
Key Technical Data

Feature	Specification
Operational Temp.	-40°C ~ +85°C
Power	9-18VDC
Power Consumption	< 7W (peak) < 3W (typ) < 24mW (Standby)
HMI Interface Options	HDMI, USB, WiFi/Bluetooth
Additional External Connections	3 x CAN 1 x J1939 4 x GPIO
Over-the-Air Update Capable	Main, HMI, and CV2X processors
Positioning	GNSS (GPS, GLONASS, Galileo, BeiDou)
Compliance to:	SAE J2735:201603 SAE J2945-1:2016 IEEE 1609.2, .3, .4, .12:2016
SAE J2735 Message Support	BSM, PSM, TIM, RSA, SRM, SSM, MAP, SPAT, EVA, WSA, RTCM, PDM
V2X Application Support	EEBL, FCW, BSW-LCW, DNPW, IMA, LTA, GLOSA, CSW, BHI
Security Credential Management System	Green Hills Integrity US DOT

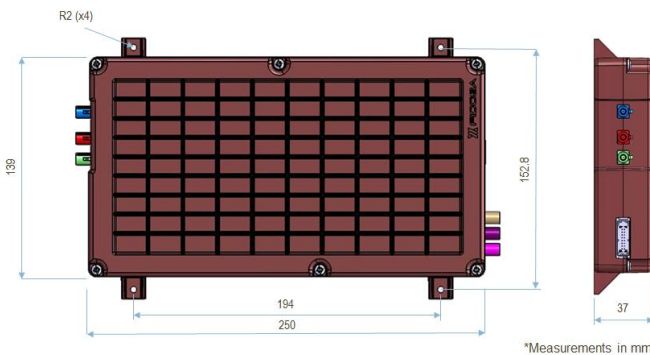
CV2X Specifications

- 3GPP Release 14 (Rx Diversity)
- PC5 side link
- LTE TDD Band 46D and Band 47
- Evolution path to 5G
- UMTS subscriber identity module (USIM)-less operation
- Global navigation satellite services (GNSS) time sync
- GNSS module integrate with Dead-Reckoning
- Output power: 20 dBm (max)
- Sensitivity: -97 dBm (typ) @6Mbps

Concept



Overall dimensions



FICOSA Adv Communications Business Unit