

LIG Accuver

IMV 100x / 110x Universal V2X Module

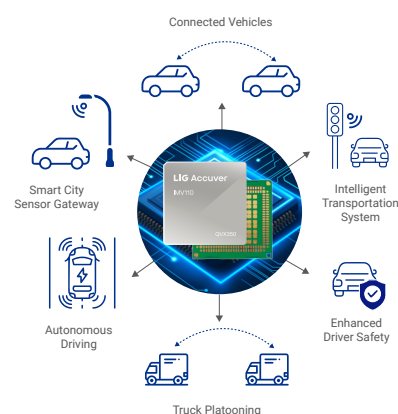
IMV100x and IMV110x are advanced V2X communication modules based on Qualcomm QVX300/350 chipsets. Designed for vehicle-to-everything (V2X) communication, these modules comply with AEC-Q100, the automotive standard for integrated circuit reliability in harsh environments. Dual-mode support enables both DSRC and C-V2X operation, including concurrent functionality for current DSRC/LTE-V2X and next-generation NR-V2X.

Features

- * **Dual-mode V2X**
C-V2X & DSRC
- * **Dual-channel**
DSRC & 5G-V2X or
LTE-V2X & 5G-V2X
- * **IATF 6949-compliant**
Automotive QMS standard
- * **ASIL B certification**
Functional Safety
certification defined by
ISO standard

Functions

- * **V2V**
 - : Forward collision warning
 - : Emergency Braking
Lights
 - : Left/Right Turn Assist
 - : Do not Pass Warning
 - : Wrong Way Driving
 - : Lane change warning
- * **V2I**
 - : Curve Speed Warning
 - : Road works Warning
 - : Road hazard warning
 - : Time to Green Sensor
Sharing
- * **V2P**
 - : Vulnerable Road User
Warning
 - : New applications can
be added based on
requirement



Item	IMV100	IMV110
Chipset	Qualcomm QVX300	Qualcomm QVX350
Application Processor	N/A	Dual-core 850MHz SynopsysARC HS48FS
V2X Technology	DSRC, LTE-V2X, 5G-V2X	DSRC, LTE-V2X, 5G-V2X
V2X Stack	Integration with any 3 rd party CPU	Pre-integrated global V2X stack
Safety	ASIL B for access layer integrity (Optional)	ASIL B for all V2X domain processing (Optional)
OS	N/A	Zephyr RTOS
Host Interface	SDIO 3.0, Ethernet RMII 10/100Mbps, SPI(IMV110x)	
Form Factor	LGA Type	
Size	42 x 44 x 3.3 (W x H x D, mm)	
Hardware Security	<ul style="list-style-type: none"> - Embedded and certified HSM to support secure signing and storage - Line-rate cryptographic verification engines - Support for US, EU, and Chinese security standards 	
Power class	Power class 3	
Operation Power	DC 5V	
Auxiliary Interface	I2C, UART, 1PPS input, GPIOs	
Antenna	2 port (Main/Diversity)	
Operating Temperature	-40~ +105°C (Automotive grade2)	