



# List of C-V2X Devices

5GAA Automotive Association  
Technical Report



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## Availability of C-V2X Devices

This document intends to provide an overview of the C-V2X Devices which we understand are already publicly available on the market or will soon be. This overview is based on publicly available information<sup>1</sup>.

This list may not include factory fit telematics/V2X boxes directly under contract with automakers.

Below, the following terms are used:

**C-V2X-Chipset:** An integrated circuit hardware including the wireless modem that manages the C-V2X information transmission and reception over a dedicated radio spectrum.

**C-V2X-Module:** A printed circuit board (PCB) assembling a C-V2X chipset with additional components, interfaces and functionalities, e.g. including application, positioning and security processors, antenna connectors etc, which are needed for the integration into a complete C-V2X unit (aka ITS station), like a roadside unit (RSU) or an on-board unit (OBU).

**C-V2X RSU:** Complete C-V2X ITS station unit incorporating a C-V2X module, designed with all necessary components to be mounted on the roadside.

**C-V2X OBU:** Complete C-V2X ITS station unit incorporating a C-V2X module, designed with all necessary components to be mounted on a vehicle.

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<sup>1</sup> The sources are referenced. 5GAA does not accept any liability for information provided by third parties. 5GAA has not verified whether the information provided by third parties is accurate. 5GAA does not in any way validate the information provided by third parties by including particular devices in this list. This document is only intended to provide an overview, the list of devices is not necessarily complete.

**LTE-V2X:** LTE-V2X relates to all 3GPP releases supporting LTE-V2X mobile network communications and LTE-V2X direct communications. LTE-V2X mobile network communications relates to 3GPP specifications, starting with Rel-8 for LTE. LTE-V2X direct communications relates to 3GPP specifications, starting with Rel-14.

**5G-V2X:** 5G-V2X relates to 5G radio access technology (NR-New Radio), starting with Rel. 15 and possibly complemented by LTE-V2X.

**C-V2X Aftermarket Safety Device (ASD):** C-V2X ITS station unit incorporating a C-V2X module, designed with components for easy installation in existing vehicles (including micromobility vehicles).

**GCF Certified:** C-V2X Devices marked with an asterisk are certified by GCF. Source: <https://www.globalcertificationforum.org/gcf-certified-products/automotive-certifications.html>

## C-V2X Chipsets:

Product Name	Manufacturer	Product type	Reference Market	More info	LTE-V2X mobile network communications (Uu)	LTE-V2X direct communications (PC5)	5G-V2X mobile network communications (Uu)	5G-V2X direct communications (PC5)
SECTON	Autotalks	Chipset	Global	<a href="#">Link</a>	-	X	-	-
CRATON2	Autotalks	Chipset	Global	<a href="#">Link</a>	-	X	-	-
TEKTON3	Autotalks	Chipset	Global	<a href="#">Link</a>	-	X	-	X
SECTON3	Autotalks	Chipset	Global	<a href="#">Link</a>	-	X	-	X
Balong765	Hisilicon-Huawei	Chipset	Global	<a href="#">Link</a>	X	X	-	-
Balong5000	Hisilicon-Huawei	Chipset	Global	<a href="#">Link</a>	X	X	-	-
CX1860	Morningcore	Chipset	Global	<a href="#">Link</a>	X	X	-	-
CX1910	Morning core	Chipset	Global	<a href="#">Link</a>	X	X	-	-
Snapdragon Automotive 5G	Qualcomm	Chipset	Global	<a href="#">Link</a>	X	X	X	-
Snapdragon Automotive 4G	Qualcomm	Chipset	Global	<a href="#">Link</a>	X	X	-	-
9150 C-V2X ASIC	Qualcomm	Chipset	Global	<a href="#">Link</a>	-	X	-	-
Snapdragon 2150 Platform	Qualcomm	Chipset	Global	<a href="#">Link</a>	X	X	X	-

## C-V2X Module:

Product Name	Manufacturer	Product Type	Reference Market	More info	LTE-V2X mobile network communications (Uu)	LTE-V2X direct communications (PC5)	5G-V2X mobile network communications (Uu)	5G-V2X direct communications (PC5)
UMCC1B	Alps Alpine	Module	CHN	<a href="#">Link</a>	-	X	-	-
UMNZ1*	Alps Alpine	Module	Global	<a href="#">Link</a>	X	X	X	-
DMD3A	CICTCI	Module	Global	<a href="#">Link</a>	-	X	-	-
DMM2x	CICTCI	Module	Global	<a href="#">Link</a>	X	X	X	-
AX168 C-V2X Module	Fibocom	Module	Global	<a href="#">Link</a>	-	X	-	-
LAM- V500	LG Innotek	Module	Global	<a href="#">Link</a>	X	X	-	-
AG15	Quectel	Module	Global	<a href="#">Link</a>	-	X	-	-
AG52xR	Quectel	Module	Global	<a href="#">Link</a>	X	X	-	-
AG18	Quectel	Module	Global	<a href="#">Link</a>	-	X	-	-
AG190W-GL	Quectel	Module	Global	<a href="#">Link</a>	-	X	-	-
AG55xQ	Quectel	Module	Global	<a href="#">Link</a>	X	X	X	-
AG590E	Quectel	Module	Global	<a href="#">Link</a>	X	X	X	-
RX113A	Rolling Wireless	Module	Global	<a href="#">Link</a>	-	X	-	-
RN93xx	Rolling Wireless	Module	Global	<a href="#">Link</a>	X	X	X	-
RN94xx	Rolling Wireless	Module	Global	<a href="#">Link</a>	X	X	X	-
SIM8100	SimCOM	Module	Global	<a href="#">Link</a>	-	X	-	-
SOM-351U	Unex Technology Corp.	Module	Global	<a href="#">Link</a>	-	X	-	-
ZM9200	ZTE	Module	Global	<a href="#">Link</a>	X	X	X	-
ZM8350	ZTE	Module	CHN/EU	<a href="#">Link</a>	-	X	-	-

## C-V2X OBU:

Product Name	Manufacturer	Product Type	Reference Market	More info	LTE-V2X mobile network communications (Uu)	LTE-V2X direct communications (PC5)	5G-V2X mobile network communications (Uu)	5G-V2X direct communications (PC5)
5G OBU, CTX-0800*	Askey	OBU	EU/US/CHN	<a href="#">Link</a>	X	X	X	-
AI-500-065-02	Applied Information	OBU	US	<a href="#">Link</a>	X	X	-	-
V2X OBU	Chemtronics	OBU	US/KOR/CHN	<a href="#">Link</a>	-	X	-	-
ITS-OB4	Commsignia	OBU	EU/US	<a href="#">Link</a>	X	X	X	-
MK6C EVK	Cohda Wireless	OBU	Global	<a href="#">Link</a>	-	X	-	-
MK6 OBU	Cohda Wireless	OBU	Global	<a href="#">Link</a>	X	X	X	-
R1900 Series 5G Ruggedized Router	CradlePoint	OBU	Global	<a href="#">Link</a>	X	-	X	-
R2100 Series 5G Ruggedized Router	CradlePoint	OBU	Global	<a href="#">Link</a>	X	-	X	-
HMCU-OBU	CTAG	OBU	EU	<a href="#">Link</a>	X	X	X	-
VU4004	CICTCI	OBU	CHN	<a href="#">Link</a>	X	X	-	-
VU4105	CICTCI	OBU	CHN	<a href="#">Link</a>	X	X	X	-
VU40E4	CICTCI	OBU	CHN	<a href="#">Link</a>	X	X	-	-
C-V2X Autolink	Danlaw	OBU	US	<a href="#">Link</a>	X	X	-	-
C-V2X OBU	Ficosa	OBU	Global	<a href="#">Link</a>	X	X	-	-
HARMAN Savari MobiWAVE	Harman	OBU	Global	<a href="#">Link</a>	-	X	-	-
WaveBee Plus Av1022A	Keysight	OBU	Global	<a href="#">Link</a>	-	X	X	-
CBOX-OBU	Neusoft	OBU	CHN	<a href="#">Link</a>	-	X	-	-
VeTalk	Neusoft	OBU	Global	<a href="#">Link</a>	X	X	-	-
RXV200	RANiX	OBU	Global	<a href="#">Link</a>	-	X	-	-
OBU-351U	Unex Technology Corp	OBU	Global	<a href="#">Link</a>	-	X	-	-
Y9000	ZTE	OBU	CHN	<a href="#">Link</a>	X	X	X	-

## C-V2X RSU:

Product Name	Manufacturer	Product Type	Reference Market	More info	LTE-V2X mobile network communications (Uu)	LTE-V2X direct communications (PC5)	5G-V2X mobile network communications (Uu)	5G-V2X direct communications (PC5)
5G RSU, CRU-0100	Askey	RSU	EU/US/CHN	<a href="#">Link</a>	X	X	X	-
AI-500-095	Applied Information	RSU	US	<a href="#">Link</a>	-	X	-	-
MK6C-RSU	Cohda Wireless	RSU	EU/US/CHN	<a href="#">Link</a>	-	X	-	-
ITS-RS4	Commsignia	RSU	EU/US	<a href="#">Link</a>	X	X	X	-
MK6 RSU	Cohda Wireless	RSU	Global	<a href="#">Link</a>	X	X	X	-
HMCU-RSU	CTAG	RSU	EU	<a href="#">Link</a>	X	X	X	-
RU3110E	CICTCI	RSU	CHN	<a href="#">Link</a>	X	X	-	-
RU5000E	CICTCI	RSU	CHN	<a href="#">Link</a>	X	X	X	-
C-V2X RouteLink	Danlaw	RSU	US	<a href="#">Link</a>	-	X	-	-
ETF-PRO-RC	Ettifos Co.	RSU	EU/US	<a href="#">Link</a>	X	X	X	-
Savari StreetWAVE	Harman	RSU	Global	<a href="#">Link</a>	X	X	X	-
RSU5201	Huawei	RSU	Global	<a href="#">Link</a>	X	X	-	-
RIS-9260 C-V2X ITS Station	Kapsch	RSU	Global	<a href="#">Link</a>	X	X	-	-
WaveBee Road AV1023A	Keysight	RSU	Global	<a href="#">Link</a>	-	X	X	-
V2I-OUT_OMNI	Lacroix City	RSU	EU/US	<a href="#">Link</a>	X	X	X	-
RSU DK3	SWARCO	RSU	EU	<a href="#">Link</a>	-	X	-	-
RSU-351x	Unex Technology Corp	RSU	Global	<a href="#">Link</a>	-	X	-	-
Sittraffic Dual Mode ESCoS RSU	Yunex-Siemens	RSU	Global	<a href="#">Link</a>	X	X	-	-
Y2000	ZTE	RSU	CHN	<a href="#">Link</a>	X	X	-	-
Y2001	ZTE	RSU	CHN	<a href="#">Link</a>	X	X	X	-



## C-V2X ADS

Product Name	Manufacturer	Product type	Reference Market	More info	LTE-V2X mobile network communications (Uu)	LTE-V2X direct communications (PC5)	5G-V2X mobile network communications (Uu)	5G-V2X direct communications (PC5)
V2X-AIR	Ettifos	ASD	EU/US	<a href="#">Link</a>	X	X	X	-

5GAA is a multi-industry association to develop, test and promote communications solutions, initiate their standardisation and accelerate their commercial availability and global market penetration to address societal need. For more information such as a complete mission statement and a list of members please see <https://5gaa.org>

