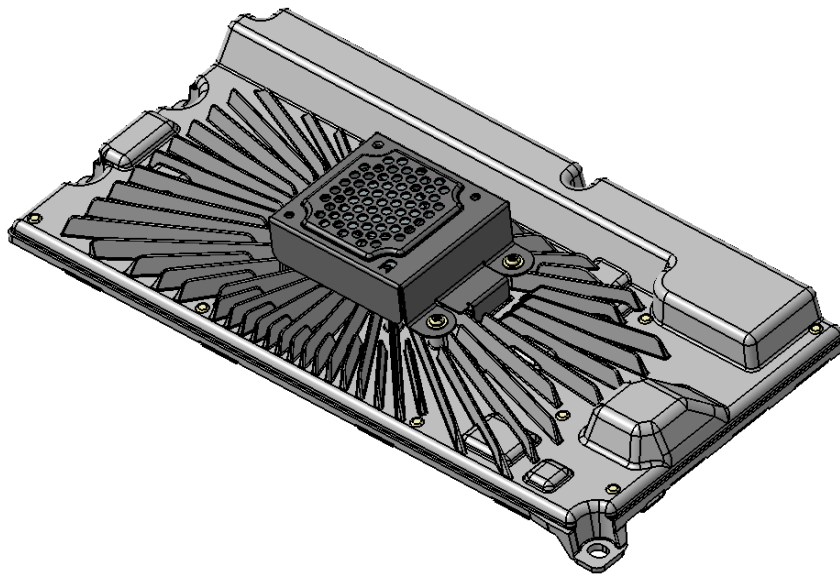


User eXperience Computer-F (UXC-F) User Guide



Name: Waymo User eXperience Computer-F (UXC-F)

Description: A single board computer used to facilitate an Audio and Video interface between the Waymo Compute Box and the output sources, i.e., displays, speakers (via DHU).

Model Year: MY26

Panasonic#: CV-RQ5FN0GX

1 Support information

1.1 Supplier Contact Information

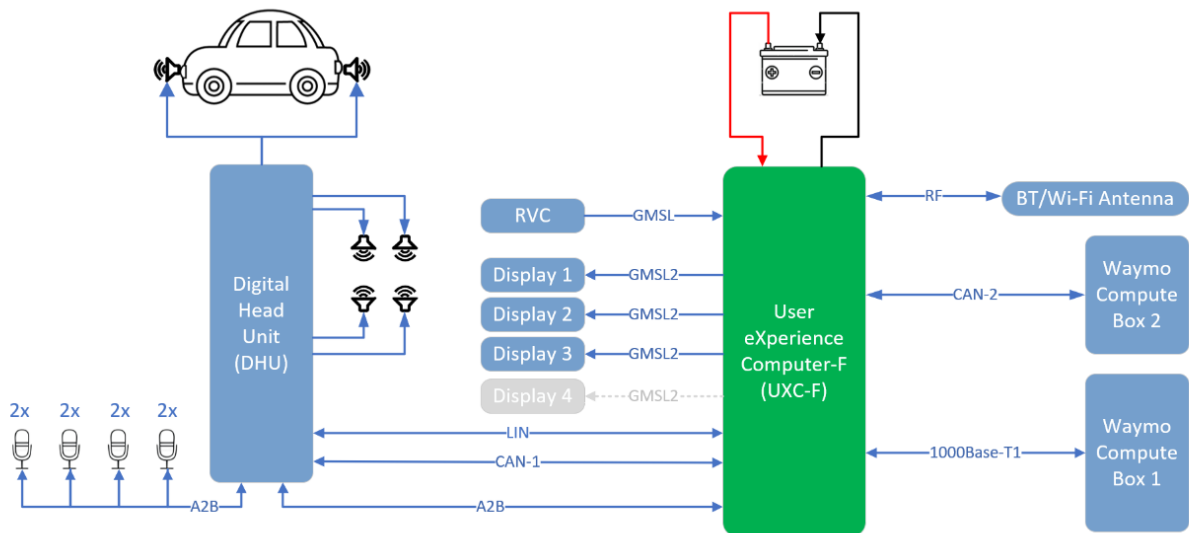
Company Name:	Panasonic Automotive Systems America, LLC.
Company Address:	776 Highway 74 South, Peachtree City, GA 30269, USA
Company Website:	http://automotive.panasonic.com/en

1.2 Revision History

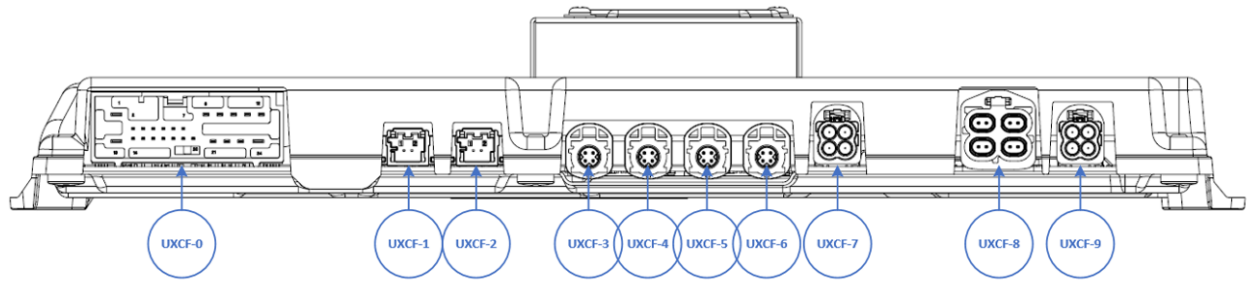
Revision	Date MM/DD/YY	Description (Sections Changed)
R1	11/20/2025	Initial release
R1c	01/23/2026	Certification release

2 General

2.1 System Information



2.2 Connector List



Connector	Ref(Waymo)
Power(+B/Disp),CAN,etc	UXCF-0
A2B - Main	UXCF-1
A2B - Sub	UXCF-2
Display0, Key A	UXCF-3
Display1, Key D	UXCF-4
Display2, Key E	UXCF-5
Display3, Key F	UXCF-6
Camera 1	UXCF-7
Ethernet	UXCF-8
BT/Wi-Fi Antenna	UXCF-9
Debug, JTAG	UXCF-10
USB (for ADB)	UXCF-11

2.3 Antenna Part Number

Brand	Model
Taoglas	MA323.A.001

2.4 Operation of the UXC-F

Waymo UXC-F unit is a variant of the SkipGen3 platform developed by Panasonic Automotive. The unit is used to facilitate an Audio and Video interface between the Waymo Compute Box and the output sources, i.e., displays, speakers (via DHU). The UXC-F provides an android operating system platform to host Waymo's apps. The UXC-F also, provides Rear View Camera (RVC), and BT(BLE)/Wi-Fi capabilities.

2.5 Functions of the UXC-F

See Waymo Vehicle User Manual for full list of functions.

Main Functions:

Display images from Waymo Compute Box to 3 displays (1) front center console and (2) rear seat consoles for HMI support.

Audio sounds from Waymo Compute Box to DHU speakers/microphones for HMI support.

BT/Wi-Fi streaming from customer phone to UXC-F to stream customer audio/video to display/speakers.

BT: Ver 5.2

Wi-Fi: IEEE802.11a/b/g/n/ac/ax

2.6 UXC-F Mode Descriptions

See Waymo Vehicle User Manual for full list of modes.

Main Modes:

Full mode: unit is operating with all display, speakers, mics, RVC and BT/Wi-Fi.

Sleep mode: unit is in an off state and can be awoken via the WAKE pin or by CAN messages.

3 Specifications

3.1 Electrical

Electrical Specifications				
Function	Unit	Min	Nominal	Max
Operating Voltage	Volts	6.6	13.5V	16V
Operating Current	Ampere		7A	15A
Off (sleep mode)	Ampere			1mA
Display Resolution	-		1920 x 1080	
Display Aspect Ratio	-		16:9	

3.2 Environmental

Environmental Specifications				
Function	Unit	Min	Nominal	Max
Operating Temperature	Celsius	-30°C		70°C
Storage Temperature	Celsius	-40°C		85°C
Weight	g		1840	
Length	mm		313	
Width	mm		150.6	
Height	mm		51	
IP Rating	-		IP21	

3.3 RF

RF Specifications				
Function	Unit	Min	Nominal	Max
BT	GHz	2.400		2.4835
BT	dBm	0	5	10
BT (BLE)	GHz	2.402		2.480
BT (BLE)	dBm	0	5	10
Wi-Fi (5GHz – 802.11a)	GHz	5.180		5.825
Wi-Fi (5GHz – 802.11a)	dBm	7	11	15
Wi-Fi (2.4GHz – 802.11b)	GHz	2.412		2.472
Wi-Fi (2.4GHz – 802.11b)	dBm	8	12	16
Wi-Fi (2.4GHz – 802.11g)	GHz	2.412		2.472
Wi-Fi (2.4GHz – 802.11g)	dBm	4	8	12
Wi-Fi (2.4GHz – 802.11n)	GHz	2.412		2.472
Wi-Fi (2.4GHz – 802.11n)	dBm	4	8	12
Wi-Fi (5GHz – 802.11n)	GHz	5.210		5.775
Wi-Fi (5GHz – 802.11n)	dBm	6	10	14
Wi-Fi (5GHz – 802.11ac)	GHz	5.210		5.775
Wi-Fi (5GHz – 802.11ac)	dBm	5	9	13
Wi-Fi (2.4GHz – 802.11ax)	GHz	2.432		2.452
Wi-Fi (2.4GHz – 802.11ax)	dBm	1	5	9
Wi-Fi (5GHz – 802.11ax)	GHz	5.210		5.775
Wi-Fi (5GHz – 802.11ax)	dBm	4	8	12

3.4 Antenna Specifications

Antenna Specifications				
Standard	Impedance	Polarization	Radiation Pattern	Max. Input Power
WLAN(1)	50Ω	Linear	Omni	10W
WLAN(2)	50Ω	Linear	Omni	10W
BT	50Ω	Linear	Omni	10W

4 Drawings

4.1 Exploded View

5 Regulatory Notices

5.1 U.S.A and Canada

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) The device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Antenna installation should be performed by a licensed or qualified installer in accordance with radio frequency codes.

UXC-F shall be used with only the approved antenna and no antenna other than that authorized by the manufacturer shall be used with the device.

EMC

Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

RF exposure safety

This device complies with the FCC RF exposure limits and has been evaluated in compliance with portable exposure conditions.

The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body.

ISED CANADA

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) The device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et,
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure safety

This device complies with the ISED RF exposure limits and has been evaluated in compliance with portable exposure conditions.

The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This distance or greater is maintained by vehicle design and ensures compliance by normal use of the vehicle.

CAN ICES-003

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler le droit de l'utilisateur à utiliser l'équipement.

Sécurité d'exposition aux RF

Cet appareil est conforme aux limites d'exposition RF d'ISED et a été évalué conformément aux conditions d'exposition portable.

L'antenne doit être installée et utilisée à une distance minimale de 20 cm entre l'élément rayonnant et votre corps. Cette distance ou plus est maintenue par la conception du véhicule et assure la conformité par l'utilisation normale du véhicule.

CAN NMB-003

Cet appareil numérique de classe B est conforme à la norme canadienne NMB-003.

End of Document