



CMP9620

Hosted Wi-Fi 6 2x2 + Bluetooth Module

Datasheet

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TRANSCEIVER IC

The CMP9620, utilizing the NXP 88W9098 SoC, is a WiFi 6 2x2 + Bluetooth combo device enabling gigabit-level performance for high-end applications. This transceiver supports concurrent Wi-Fi connectivity at both 2.4 and 5 GHz to maximize performance in harsh environments. To maximize data throughput to the host MPU, the WLAN interface is PCIe with UART used for the Bluetooth interface.

HOST DRIVER SUPPORT

The CMP9620 is supported on the NXP i.MX family of MPUs running Linux and Android. Additional platforms may be supported as well. Please contact CEL for details on available drivers, Quick Start Guides and Driver Porting Guides.

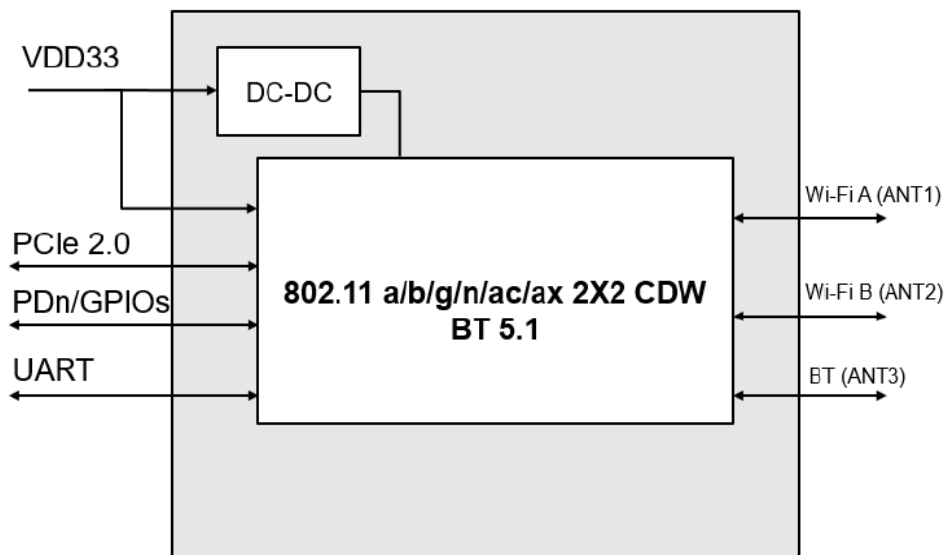
ABSOLUTE MAXIMUM RATINGS

Description	Min	Max	Unit
Storage temperature range	-40	+85	°C
Power supply voltage (VDD33)	-	3.63	V
Power supply voltage (VDDIO)		3.63	V
I/O voltage	-0.4	VDDIO + 0.4	V

RECOMMENDED OPERATING CONDITIONS

Description	Min	Typ	Max	Unit
Operating temperature range	-40	-	+85	°C
Supply Voltage (VDD33)	3.14	3.3	3.46	V
Supply Voltage (VDDIO – 1.8V operation)	1.71	1.8	1.89	V
Supply Voltage (VDDIO – 3.3V operation)	3.14	3.3	3.46	V

BLOCK DIAGRAM



WLAN FEATURES

Feature	Description
WLAN Standard	IEEE 802.11 a/b/g/n/ac/ax 2T2R
Frequency Range	2.4 GHz ISM Band 2.412 – 2.472 GHz 5.15 – 5.25 GHz (FCC UNII-low band) – US/Canada and Europe 5.25 – 5.35 GHz (FCC UNII-middle band) – US/Canada and Europe 5.47 – 5.725 GHz – Europe 5.725 – 5.825 GHz (FCC UNII-high band) – US/Canada
Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, OFDMA
Supported Channels	2.4 GHz: - North America and Taiwan – 1-11 5 GHz: - North America and Europe – 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n NSS1: Up to 150 Mbps 802.11n NSS2: Up to 300 Mbps 802.11ac HT20: Up to 192.6 Mbps 802.11ac HT40: Up to 400 Mbps 802.11ac HT80: Up to 866.7 Mbps 802.11ax 2.4 GHz: Up to 458 Mbps 802.11ax 5 GHz: Up to 1.2 Gbps
Security	WPA/WPA2/WPA3

POWER CONSUMPTION

WLAN TX

(@25°C unless otherwise specified)

Wi-Fi Band (GHz)	Mode	BW (MHz)	TX Power (dBm)	Max Current	Unit
2.4	11b @ 1 Mbps	20	18	467	mA
	11g @ 6 Mbps	20	17	428	
	11n @ MCS8 MIMO	40	16	648	
	11n @ MCS15 MIMO	40	16	584	
	11ax @ MCS11 NSS2	40	14	544	
5	11a @ 6 Mbps	20	16	488	mA
	11n @ MCS8 MIMO	40	16	870	
	11n @ MCS15 MIMO	40	16	785	
	11ac @ MCS0 NSS2	80	15	844	
	11ac @ MCS9 NSS2	80	15	752	
	11ax @ MCS0 NSS2	80	12	820	
	11ax @ MCS11 NSS2	80	12	751	
Concurrent	11n @ MCS0 MIMO (2.4 GHz)	40	16	1312	mA
	11ax @ MCS0 NSS2 (5 GHz)	80	14		
	11ax @ MCS0 NSS2 (2.4 GHz)	40	16	1215	
	11ac @ MCS0 NSS2 (5 GHz)	40	15		

WLAN RX

(@25°C unless otherwise specified)

Wi-Fi Band (GHz)	Mode	BW (MHz)	Max Current	Unit
2.4	11b @ 1 Mbps	20	194	mA
	11ax @ MCS0 NSS1	40	211	
5	11a @ 6 Mbps	20	231	mA
	11ax @ MCS0 NSS1	80	248	
	Power Down (PCIe Card Radio OFF)		0.254	mA
	DeepSleep (Not Associated with AP)		1.77	mA

Bluetooth

(@25°C unless otherwise specified; WLAN in Deep Sleep)

Operation Mode	TX Power (dBm)	Max Current	Units
Transmit (DH5)	2	30.0	mA
Receive (3DH5)	n/a	30.1	mA

RF PERFORMANCE

WLAN RF Receive Sensitivity

(@25°C unless otherwise specified)

Band (GHz)	Description	Min	Typ	Max	Unit
2.4	11b @ 11 Mbps		-88	-85	dBm
	11g @ 54 Mbps		-75	-72	
	11n @ MCS7 HT20		-72	-69	
	11n @ MCS7 HT40		-70	-66	
	11ax @ MCS11 HE20		-62	-58	
	11ax @ MCS11 HE40		-59	-53	
5	11a @ 54 Mbps		-72	-68	dBm
	11n @ MCS7 HT20		-70	-66	
	11n @ MCS7 HT40		-68	-64	
	11ac @ MCS8 VHT20		-65	-61	
	11ac @ MCS9 VHT40		-62	-58	
	11ac @ MCS9 VHT80		-59	-55	
	11ax @ MCS11 HE20		-60	-56	
	11ax @ MCS11 HE40		-57	-53	
	11ax @ MCS11 HE80		-55	-51	

WLAN RF Transmit Power

(@25°C unless otherwise specified)

Band	Description	Min	Typ	Max	Unit
2.4	11b @ 11 Mbps	16	18	20	dBm
	11g @ 54 Mbps	15.5	17	18.5	
	11n @ MCS7 HT20	14.5	16	17.5	
	11n @ MCS7 HT40	14.5	16	17.5	
	11ax @ MCS11 HE20	12.5	14	15.5	
	11ax @ MCS11 HE40	12.5	14	15.5	
5	11a @ 54 Mbps	14	16	18	dBm
	11n @ MCS7 HT20	14	16	18	
	11n @ MCS7 HT40	14	16	18	
	11ac @ MCS8 VHT20	13	15	17	
	11ac @ MCS9 VHT40	13	15	17	
	11ac @ MCS9 VHT80	13	15	17	
	11ax @ MCS11 HE20	10	12	14	
	11ax @ MCS11 HE40	10	12	14	
	11ax @ MCS11 HE80	10	12	14	

Bluetooth Tx/Rx Specifications

(@25°C unless otherwise specified)

Parameter	Min	Typ	Max	Unit
Frequency Range	2402	-	2483	MHz
TX Power – BDR, EDR, LE 1M, LE 2M	0	2	4	dBm
RX Sensitivity	BDR	-90	-87	dBm
	EDR	-87	-84	
	LE 1M	-86	-83	
	LE 2M	-85	-82	

I/O PIN ASSIGNMENTS

CMP9620-1

Reference the PCI Express M.2 Specification for details (<http://www.pcisig.com>).

Pin	PCIe M.2 Signal Name	Type	Voltage	CMP9620 Function	Description
1	GND	GND		GND	GND
2	VDD33	VDD	3.3V	VDD33	3.3V Supply
3	N/C	Floating			
4	VDD33	VDD	3.3v	VDD33	3.3V Supply
5	N/C	Floating			
6	N/C	Floating			
7	GND	GND		GND	GND
8	PCM_CLK	I/O	1.8V	PCM_CLK	PCM data clock
9	N/C	Floating			
10	PCM_SYNC	I/O	1.8V	PCM_SYNC	PCM frame sync
11	N/C	Floating			
12	PCM_OUT	I/O	1.8V	PCM_IN	Receive PCM input
13	N/C	Floating			
14	PCM_DIN	I/O	1.8V	PCM_OUT	Transmit PCM output
15	N/C	Floating			
16	N/C	Floating			
17	N/C	Floating			
18	GND	GND		GND	GND
19	N/C	Floating			
20	UART_WAKE#	I/O	3.3V	BT_WAKE_HOST#	Allows BT to wake up host platform.
21	N/C	Floating			
22	UART_TX	I/O	1.8V	UART_TXD	UART Transmit
23	N/C	Floating			
24-31				Not Used on M.2 E-Key	
32	UART_RX	I/O	1.8V	UART_RXD	UART Receive
33	GND	GND		GND	GND
34	UART_RTS#	I/O	1.8V	UART_RTS	UART Request-to-Send
35	PERp0	I/O	1.8V	PERP0	PCIe Rx Positive
36	UART_CTS#	I/O	1.8V	UART_CTS	UART Clear-to-Send
37	PERn0	I/O	1.8V	PERN0	PCIe Rx Negative
38	JTAG_TDO	I/O	1.8V	JTAG_TDO	Used for debug. Connect to JTAG header.
39	GND	GND		GND	GND
40	WLAN_WAKE	I/O	1.8V	DEV_WLAN_WAKE#	Allows host platform to wake WLAN.
41	PETp0	I/O	1.8V	PETP0	PCIe Tx Positive
42	BT_WAKE	I/O	1.8 V	DEV_BT_WAKE	Allows host platform to wake BT.
43	PETn0	I/O	1.8V	PETN0	PCIe Tx Negative
44	JTAG_TDI	I/O	1.8V	JTAG_TDI	Used for debug. Connect to JTAG header.
45	GND	GND		GND	GND
46	JTAG_TCK	I/O	1.8V	JTAG_TCK	Used for debug. Connect to JTAG header.
47	REFCLKP	I/O	1.8V	REFCLKP0	PCIe Reference Clock Positive
48	JTAG_TMS	I/O	1.8V	JTAG_TMS	Used for debug. Connect to JTAG header.
49	REFCLKN	I/O	1.8V	REFCLKN0	PCIe Reference Clock Negative
50	N/C	Floating			
51	GND	GND		GND	GND
52	PERST0	I/O	3.3V	PERST0#	PCIe Interface Reset
53	CLKREQ0	I/O	3.3V	CLKREQ0#	PCIe Clock Request
54	W_DISABLE2#	I/O	3.3V	BT_INDEPENDENT_RESET#	BT Reset
55	PEWAKE#	I/O	3.3V	PEWAKE0#	PCIe PME Wake
56	W_DISABLE1#	I/O	3.3V	PDn#	Full power-down for WLAN/BT radio.
57	GND	GND		GND	GND
58	N/C	Floating			
59	N/C	Floating			
60	N/C	Floating			
61	N/C	Floating			
62	N/C	Floating			
63	GND	GND		GND	GND
64	N/C	Floating			
65	N/C	Floating			
66	N/C	Floating			
67	N/C	Floating			
68	N/C	Floating			
69	GND	GND		GND	GND
70	N/C	Floating			
71	N/C	Floating			
72	VDD33	VDD	3.3V	VDD33	3.3V Supply
73	N/C	Floating			
74	VDD33	VDD	3.3V	VDD33	3.3V Supply
75	GND	GND		GND	GND
76	GND	GND		GND	GND

CMP9620-2

Pin	Signal Name	Description	Voltage	Type
1	PCM_OUT	PCM_OUT, GPIO Mode : GPIO[5].	VDDIO	I/O
2	PCM_CLK	PCM_CLK, GPIO Mode : GPIO[6].	VDDIO	I/O
3	GPIO[1]	GPIO Mode : GPIO[1].	VDDIO	I/O
4	GND	Ground	---	---
5	PCIE_RCLK_P	PCI Express Differential Clock Input—Positive	1V8	I
6	PCIE_RCLK_N	PCI Express Differential Clock Input—Negative	1V8	I
7	GND	Ground	---	---
8	PCIE_TX_P	PCI Express Transmit Data—Positive	1V8	O
9	PCIE_TX_N	PCI Express Transmit Data—Negative	1V8	O
10	GND	Ground	---	---
11	PCIE_RX_N	PCI Express Receive Data—Negative	1V8	I
12	PCIE_RX_P	PCI Express Receive Data—Positive	1V8	I
13	GND	Ground	---	---
14	DNC	DNC	---	---
15	DNC	DNC	---	---
16	GND	Ground	---	---
17	SD_DAT[3]	SDIO Data line Bit[3]	VIO_SD	I/O
18	SD_DAT[2]	SDIO Data line Bit[2]	VIO_SD	I/O
19	SD_DAT[1]	SDIO Data line Bit[1]	VIO_SD	I/O
20	SD_DAT[0]	SDIO Data line Bit[0]	VIO_SD	I/O
21	SD_CMD	SDIO Command/response (input/output)	VIO_SD	I/O
22	SD_CLK	SDIO Clock input	VIO_SD	I
23	VIO_SD	1.8V/3.3V Digital I/O SDIO Power Supply	1.8 or 3.3V	I
24	GND	Ground	---	---
25	PCIE_PERSTn	PCIe host indication to reset the device (active low)	VIO	I
26	PCIE_CLKREQn	PCIe clock request (active low)	VIO	I/O
27	PCIE_WAKEn	PCIe wake signal (active low)	VIO	I/O
28	PCIE_DISABLEn	PCIe DISABLEn(active low)	VIO	I
29	GND	Ground	---	---
30	UART_RTSn	UART Mode: UART_RTSn (active low)	VDDIO	O
31	UART_CTSn	UART Mode: UART_CTSn (active low)	VDDIO	I
32	UART_RX	UART SIN pin	VDDIO	I
33	UART_TX	UART SOUT.pin	VDDIO	O
34	GPIO[12]	GPIO Mode : GPIO[12].	VDDIO	I/O
35	GPIO[13]	GPIO Mode : GPIO[13].	VDDIO	I/O
36	JTAG_TDO	JTAG_TDO/GPIO[31]	VDDIO	I/O
37	JTAG_TMS	JTAG_TMS/GPIO[29]	VDDIO	I/O
38	JTAG_TDI	JTAG_TDI/GPIO[30]	VDDIO	I/O
39	JTAG_TCK	JTAG_TCK/GPIO[28]	VDDIO	I/O
40	NC	NC	---	floating
41	NC	NC	---	floating
42	NC	NC	---	floating
43	NC	NC	---	floating
44	NC	NC	---	floating
45	NC	NC	---	floating
46	NC	NC	---	floating
47	NC	NC	---	floating
48	ANT3	RF I/O pad for BT	---	I/O
49	GND	Ground	---	---
50	GND	Ground	---	---
51	GND	Ground	---	---
52	ANT2	RF I/O pad for WLAN ANT 2	---	I/O
53	GND	Ground	---	---
54	GND	Ground	---	---
55	GND	Ground	---	---
56	GND	Ground	---	---
57	GND	Ground	---	---
58	GND	Ground	---	---
59	GND	Ground	---	---
60	GND	Ground	---	---
61	GND	Ground	---	---
62	GND	Ground	---	---
63	GND	Ground	---	---
64	GND	Ground	---	---

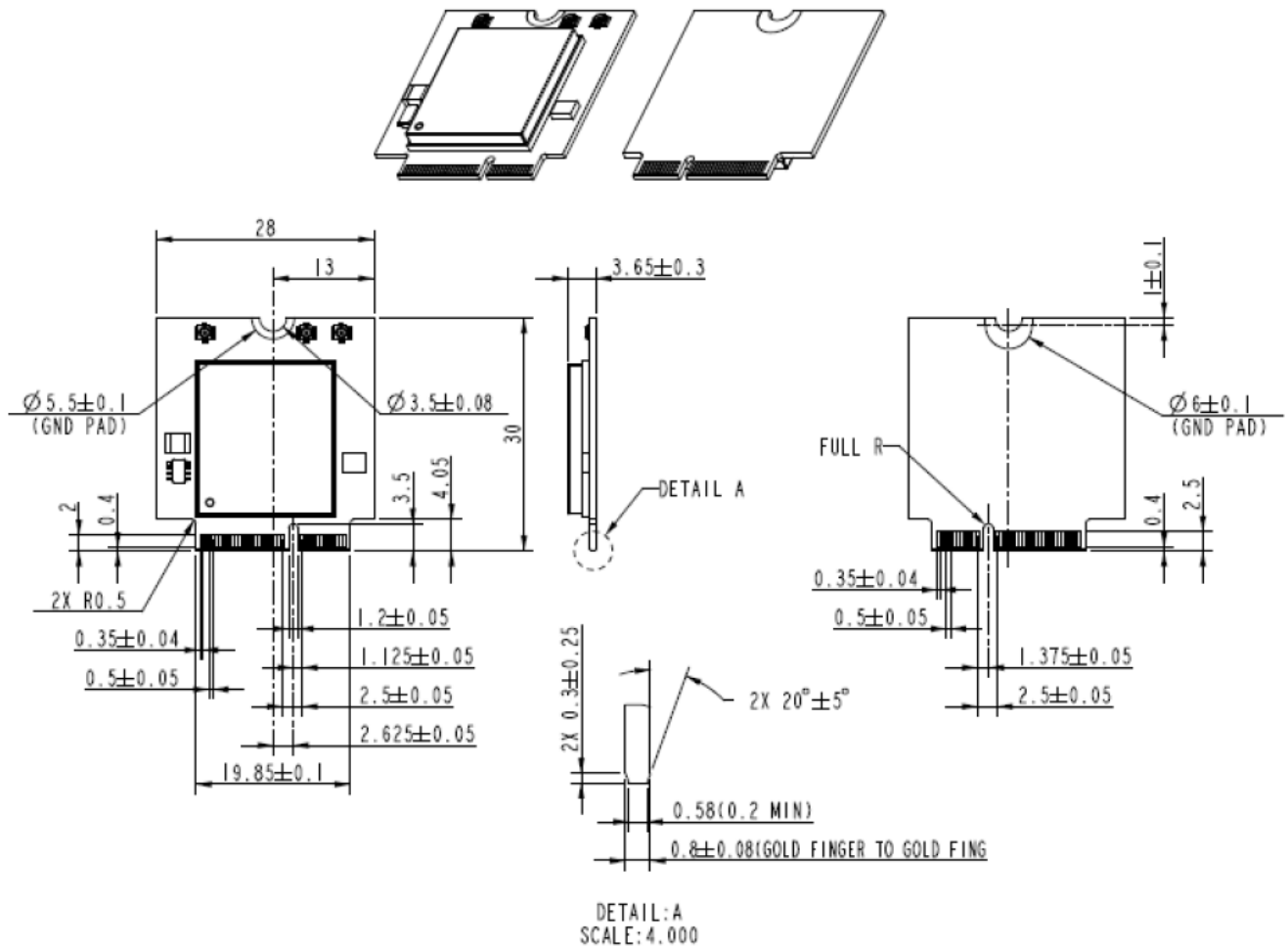
65	GND	Ground	---	---
66	GND	Ground	---	---
67	GND	Ground	---	---
68	GND	Ground	---	---
69	ANT1	RF I/O pad for WLAN ANT 1	---	I/O
70	3V3	3.3V DC power supply	3.3V	I
71	3V3	3.3V DC power supply	3.3V	I
72	GND	Ground	---	---
73	CON[0]	Firmware Boot Options. See below table*	VIO	I
74	CON[1]	Firmware Boot Options. See below table*	VIO	I
75	CON[2]	Firmware Boot Options. See below table*	VIO	I
76	NC	NC	---	floating
77	NC	NC	---	floating
78	NC	NC	---	floating
79	NC	NC	---	floating
80	NC	NC	---	floating
81	GPIO[18]	GPIO Mode : GPIO[18].	VDDIO	I/O
82	GPIO[19]	GPIO Mode : GPIO[19].	VDDIO	I/O
83	GND	Ground	---	---
84	PDn	Full Power-down input pin (active low) 0 = full power-down mode 1 = normal mode	3V3	I
85	GPIO[0]	GPIO Mode : GPIO[0].	VDDIO	I/O
86	GPIO[14]*	CON[4]* / GPIO[14]	VDDIO	I/O
87	GPIO[15]	GPIO Mode : GPIO[15].	VDDIO	I/O
88	GPIO[16]	GPIO Mode : GPIO[16].	VDDIO	I/O
89	PCM_SYNC	PCM_SYNC, GPIO Mode : GPIO[7].	VDDIO	I/O
90	VIO	Digital I/O power supply	1.8 or 3.3V	I
91	GND	Ground	---	---
92	1V8	1.8V DC power supply	1.8V	I
93	1V8	1.8V DC power supply	1.8V	I
94	PCM_DIN	PCM_DIN, GPIO Mode : GPIO[4].	VDDIO	I/O
95	GND	Ground	---	---
96	GND	Ground	---	---
97	GND	Ground	---	---
98	GND	Ground	---	---
G1~36	GND	Ground	---	---

*Firmware Boot options

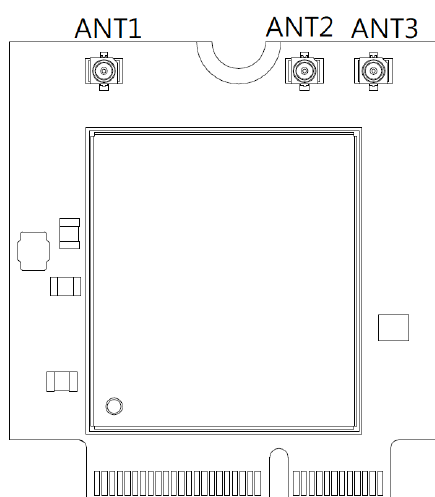
Strap Value	WLAN	Bluetooth/LE
000	SDIO	UART
011	PCIe	UART

MODULE DIMENSIONS and CONNECTORS

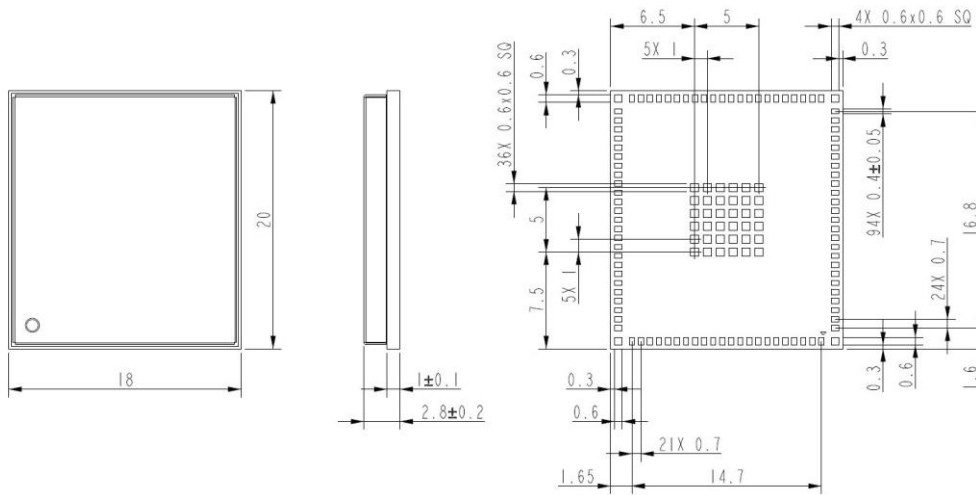
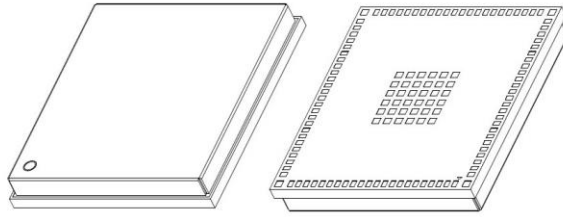
CMP9620-1C



TOLERANCES UNLESS OTHERWISE SPECIFIED: $\pm 0.15\text{mm}$



CMP9620-2



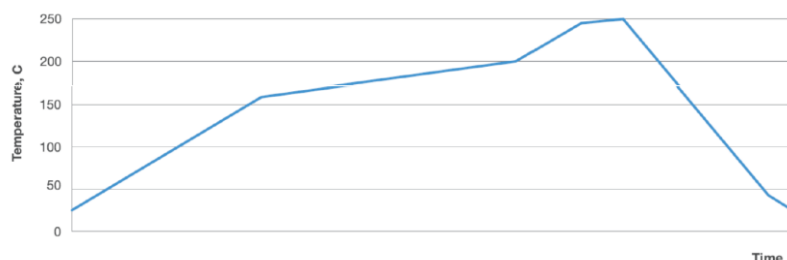
TOLERANCE UNLESS OTHERWISE SPECIFIED: $\pm 0.1\text{mm}$

97	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	96
70																							47
71																							46
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88																							29
89																							28
90																							27
91																							26
92																							25
93																							24
94																							23
98	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	95

PROCESSING

Recommended Reflow Profile

Parameter Values	
Ramp Up Rate	3°C/sec max
Max Time above 217°C	120 seconds
Peak Temperature	250°C
Max Time within 5°C of Peak Temperature	20 seconds
Ramp Down Rate	6°C/sec max



Pb-Free Solder Paste

Use of “No Clean” soldering paste is strongly recommended, as it does not require cleaning after the soldering process.

Note: The quality of solder joints on the castellations (“half vias”) where they contact the host board should meet the appropriate IPC Specification. See the Castellated Terminations Section in the latest IPC-A-610 Acceptability of Electronic Assemblies document.

Cleaning

In general, cleaning the populated module is strongly discouraged. Residuals under the module cannot be easily removed with any cleaning process.

- Cleaning with water can lead to capillary effects where water is absorbed into the gap between the host board and the module. The combination of soldering flux residuals and encapsulated water could lead to short circuits between neighboring pads. Water could also damage any stickers or labels.
- Cleaning with alcohol or a similar organic solvent will likely flood soldering flux residuals into the two housings, which is not accessible for post-washing inspection. The solvent could also damage any stickers or labels.
- Ultrasonic cleaning could damage the module permanently.

The best approach is to consider using a “No Clean” solder paste and eliminate the post-soldering cleaning step.

AGENCY CERTIFICATIONS

The following certifications are in effect for CMP9620-1:

- FCC ID: TLZ-XM9098
- IC ID: 6100A-XM9098
- CE/RED: TBD

FCC Compliance Statement Part 15.19, Section 7.15 of RSS-GEN

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS Standards. Operation is

subject to the following two conditions:

1. This device may not cause harmful interference.
2. This 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.

Warning (Part 15.21)

Changes or modifications not expressly approved by CEL could void the user's authority to operate the equipment.

20 cm Separation Distance

To comply with FCC/IC RF exposure limits for general population/uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

OEM Responsibility to the FCC and IC Rules and Regulations

The CMP9620 modules have been certified per FCC Part 15 Rules and to Industry Canada license-exempt RSS Standards for integration into products without further testing or certification. To fulfill the FCC and IC Certification requirements, the OEM of the CMP9620 must ensure that the information provided on the CMP9620 label is placed on the outside of the final product. The CMP9620 is labeled with its own FCC ID Number and IC ID Number. If the FCC ID and the IC ID are not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. The exterior label can use wording such as the following:

"Contains Transmitter Module FCC ID: TLZ-XM9098" or "Contains FCC ID: TLZ-XM9098"

"Contains Transmitter Module IC ID: 6100A-XM9098" or "Contains IC ID: 6100A-XM9098"

IC Certification — Industry Canada Statement

The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Certification IC - Déclaration d'Industrie Canada

Le terme "IC" devant le numéro de certification/d'enregistrement signifie seulement que les spécifications techniques Industrie Canada ont été respectées.

Section 14 of RSS-210

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population. Consult Safety Code 6, obtainable from Health Canada's website: <http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/99ehd-dhm237/index-eng.php>

L'article 14 du CNR-210

Le programme d'installation de cet équipement radio doit s'assurer que l'antenne est située ou orientée de telle sorte qu'il ne pas émettre de champ RF au-delà des limites de Santé Canada pour la population générale. Consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada: <http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/99ehd-dhm237/index-eng.php>

ANTENNA INFORMATION

The CMP9620 modules have been certified with select external antennas connected via the MFH4 connectors.

The following are some design guidelines to help ensure antenna performance:

- Never place the ground plane or route copper traces directly underneath the antenna portion of the module
- Never place the antenna close to metallic objects
- In the overall design, ensure that wiring and other components are not placed near the antenna
- Do not place the antenna in a metallic or metalized plastic enclosure
- Keep plastic enclosures 1cm or more away from the antenna in any direction

CEL can assist with your PCB design and layout.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

APPROVED ANTENNAS

The CMP9620 may only use the approved antennas that has been certified with this module. The OEM using the CMP9620 must test their final product configuration to comply with Unintentional Radiator Limits before declaring FCC Compliance per Part 15 of the FCC Rules.

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	1	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
2	2	2	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	
3	1	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	

Note1:

Ant.	Port		Antenna Gain (dBi)		
	2.4GHz	5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	1	1	2.98	5.16	-
2	2	2	2.98	5.16	-
3	1	1	-	-	2.98

SHIPMENT, HANDLING AND STORAGE

Shipment

The CMP9620-1 modules are packed in trays of 160 pcs.

The CMP9620-2 modules are packed in tape-and-reel qty of 650 pcs.

Warnings

The CMP9620 modules contain highly sensitive electronic circuitry. Handling without proper ESD protection may destroy or damage the module permanently.

The CMP9620 modules are moisture-sensitive devices. Appropriate handling instructions and precautions are summarized in J-STD-033. Read carefully to prevent permanent damage due to moisture intake.

Never attempt a rework on the module itself (i.e., replacing individual components); such actions will terminate warranty coverage.

Additional Grounding

Attempts to improve the module or the system grounding by soldering braids, wires or cables onto the module RF shield cover is done at the customer's own risk. The ground pins on the module perimeter should be sufficient for optimum immunity to external RF interference.

ORDERABLE PART NUMBERS

Orderable Part Number	Description	Min/Mult
CMP9620-1C-T	88W9098, WiFi6 2x2 + BT, M.2	160/160
CMP9620-2-R	88W9098, WiFi6 2x2 + BT, LGA	650/650

REFERENCES

Reference Documents	Download
Health Canada Safety Code 6	Link

REVISION HISTORY

Revision	Changes to Current Version	Page(s)
0031-00-07-00-000 (Issue A) Oct 15, 2021	Initial Release	N/A
0031-00-07-00-000 (Issue B) Jan 31, 2022	Update operating temperature limits.	3
0031-00-07-00-000 (Issue C) Sept 7, 2022	Add mechanical info for -2 LGA version.	

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