

iW-G39H Series HMI Datasheet



iWave
Embedding Intelligence

Revision History

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REL 1.1	12 th June 2021	Updated Part number & LCD Specification for 7" HMI
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1 Introduction

1.1 Purpose

The document is a datasheet of the Rainbow series HMI solution based on i.MX8M Mini application processor. This solution is fully supported by iWave Systems Technologies Pvt Ltd. This datasheet provides information on overall hardware specification, software specification, mechanical dimension and subjected pre-compliance test cases.

1.2 Overview

HMI is based on iWave Systems Technologies Pvt Ltd i.MX8M Mini SODIMM SOM. The HMI support i.MX8M Mini ARM™ Cortex Core-A53 based CPU and ARM Cortex-M4 core.

HMI support 7" and 10.1" display solution with PCAP touch interface.

HMI BSP provided will be a collection of Tools, Binary, Source code and support files, these deliverables can be used to create a Linux Kernel Image and Android/Linux Root file system for our HMI solution.

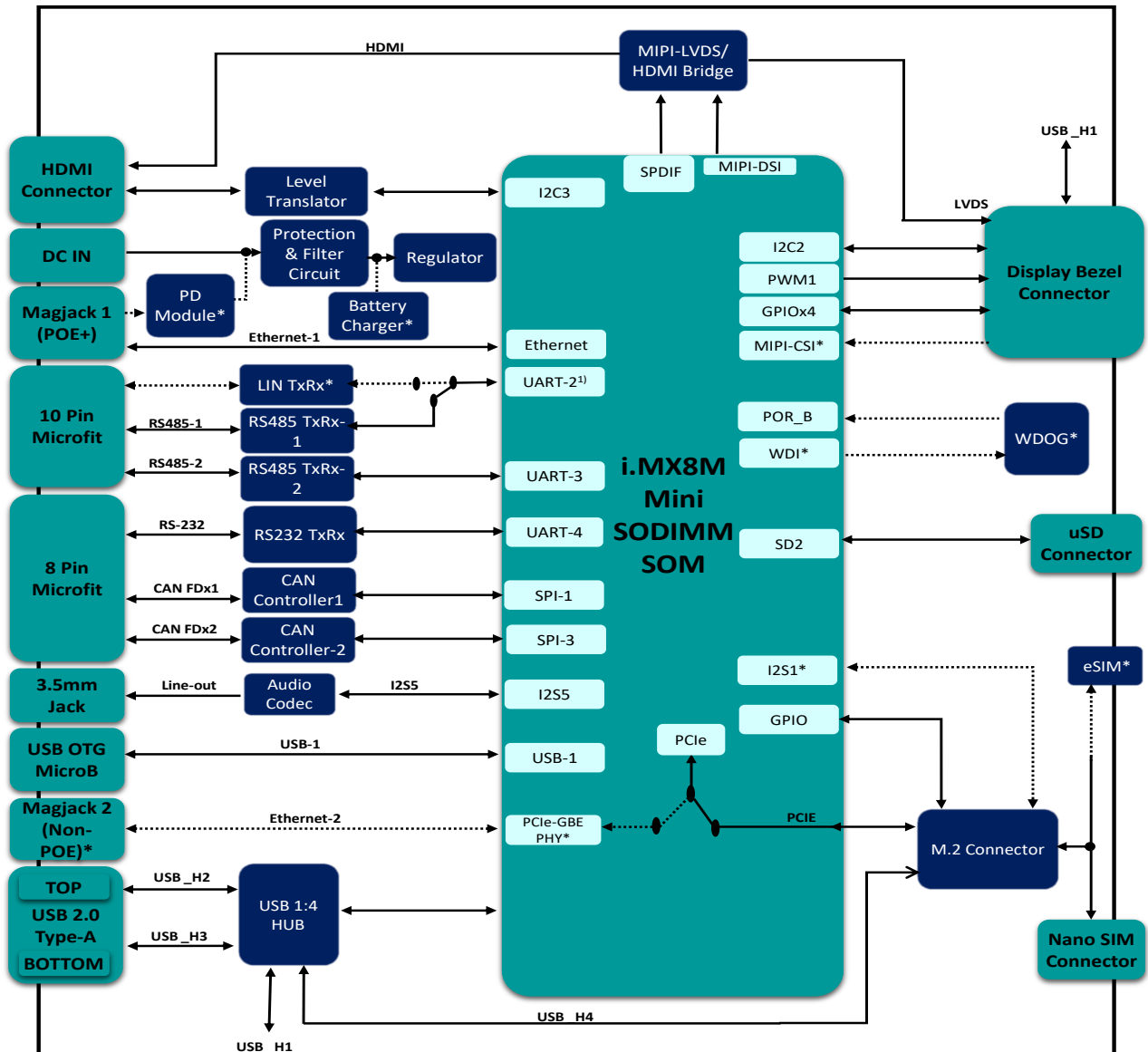
2 Technical Details

This section provides technical details of the hardware, software and mechanical aspect of HMI.

2.1 Block Diagram



iW-RainboW-G39H – i.MX8M Mini Based Carrier Card Block Diagram



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iWave Systems Technologies Pvt. Ltd.

Figure 1 : Block Diagram

*Optional Features will not be populated in the standard configuration. Please contact iWave Systems

⁽¹⁾ UART2 is used for RS485 and LIN. By default RS485 is supported.

2.2 HMI Mechanical detail

This chapter contains illustrations of the HMI Mechanical Dimension.

2.2.1 10.1" display HMI Dimension

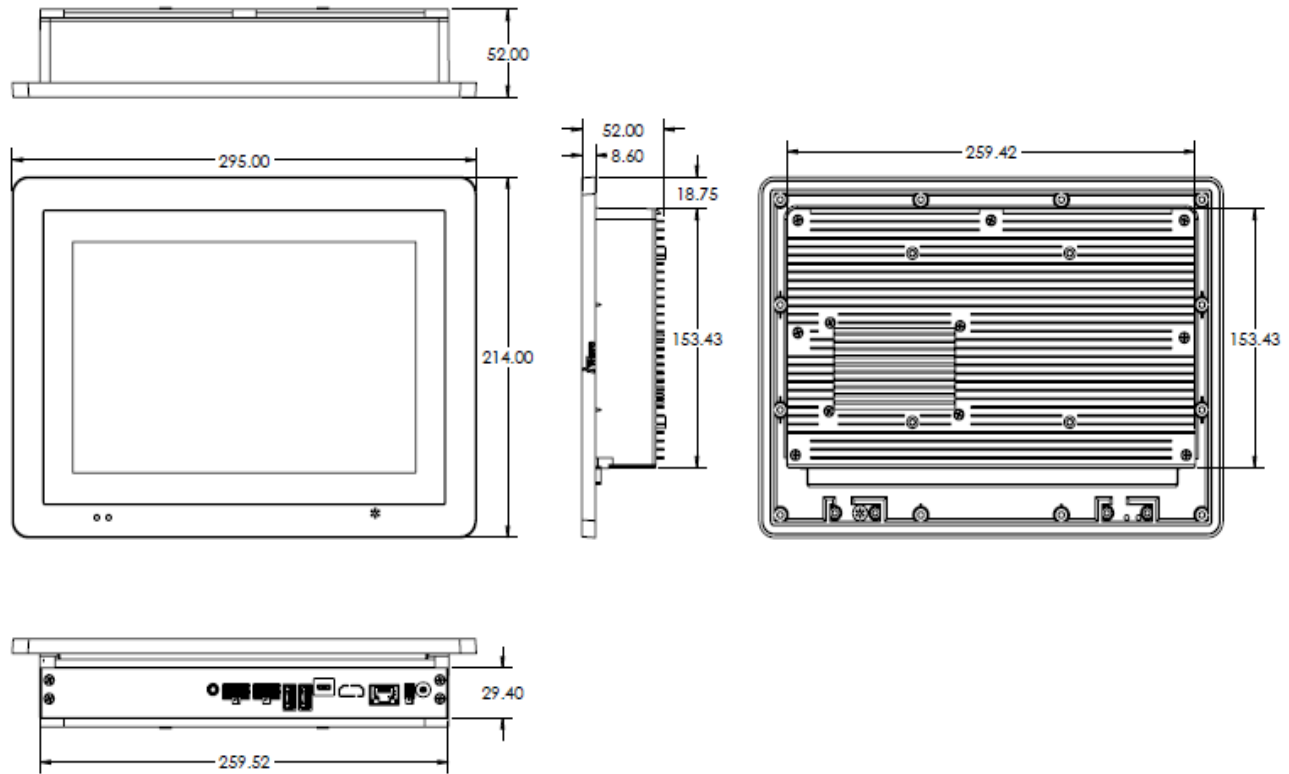


Figure 2 : 10.1" HMI Drawing

Note:

All the dimensions are in mm

Enclosure design feature can change without any notice for improving product Feature.

2.3 HMI Specification

Table 1 : HMI Specification

CPU		i.MX8M Mini Quad Core
Core Class & CPU Clock		Arm Cortex A53 & Cortex®-M4
Memory		
Flash Memory		8GB eMMC Flash
RAM		1GB –LPDDR4
Micro SD card slot		4-bit MMC/SDIO/SD
Operating System		
Supported OS		Linux 4.14.98 & Android Pie 9.0.0
Communication Interfaces		
Ethernet-1(PoE)		1x10/100/1000 Mbps Ethernet (RJ45)
Ethernet-2		1x10/100/1000 Mbps Ethernet (RJ45)*
USB 2.0		2xUSB Host (Type A)
USB OTG		1xUSB OTG
CAN FD		2x CAN up-to 5Mbps data rate
RS485		2xRS485
LIN		1xLIN*
RS232		1xRS232
Wireless Communication interfaces		
WIFI		IEEE 802.11 a/b/g/n/ac
Bluetooth		Bluetooth 5.0
M.2 Module		M.2 Key-B connector with USB 2.0, PCIe1 and USIM interfaces
Audio		
Audio		Line Out
Enclosure		
Front Bezel		ABS Plastic
Back cover, heat Sink & Connector Plate		Aluminum
Ingress Protection		Front IP64 [#] /Back IP20
Power Supply		
Power Input		12V/24V DC external Supply
		7.4V Lithium-Polymer Battery*
		PoE+ (IEE802.3at)*
Typical Environment condition		
Storage Temperature		-20°C to +70°C
Operating Temperature		-10°C to 65°C
Humidity		95% @ 40°C

* Optional Features will not be populated in the standard design and may have MOQ requirement. Please contact iWave Systems.

In Plan.

Table 2 : LCD Specification

LCD Specification		
Size	10.1"	7"
Resolution	1280 x 800	1024 x 600
Aspect Ratio	16:10	16:09
Brightness	800 cd/m ²	850 cd/m ²
Backlight Life	Min 70K Hrs	Min 50K Hrs
Touch	PCAP with Multi touch	PCAP with Multi touch & Glove Touch
LCD Type	IPS transmissive type	

Table 3 : LCD and Touch Panel Specification

2.4 HMI Connectors

This section describes the Connectors of HMI.

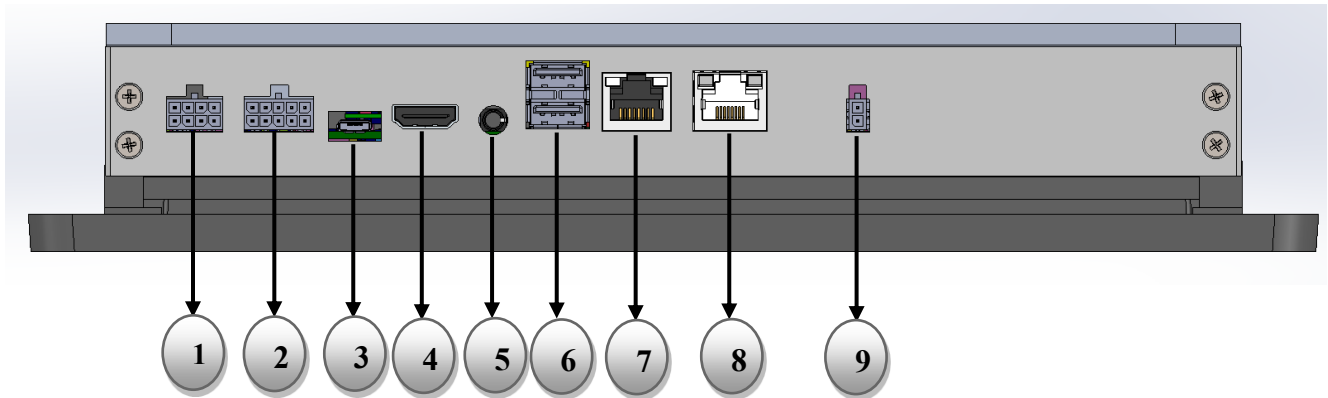


Figure 3 : HMI Connector

Table 4 : HMI Connector Details

Position	Description
1	RS232 & CAN Connector
2	RS485 & LIN Connector.
3	USB OTG
4	HDMI
5	Audio Jack
6	USB Host
7	Ethernet 2
8	Ethernet 1
9	Power Input Connector

2.4.1 Power Input Connector

Connector part No: 66200221022

Mating connector part No: 662002113322

Supporting crimp part No: 66200113722DEC

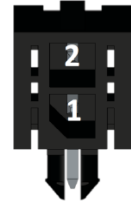


Table 5 : Power Input Connector Pin Detail

Pin No	Signal Name	Signal Type	Signal Description
1	GND	Power	Ground
2	VCC	Power	12-24V DC Supply.

2.4.2 RS485 & LIN Connector

Connector Part No: 66201021022

Mating connector part No: 662010113322

Supporting Crimp part No: 66200113722DEC

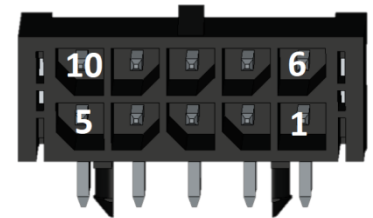


Table 6 : RS485 & LIN Connector Pin Details

Pin No	Signal Name	Signal	Signal Description
1	UART_2_RS485_TXY1	Differential	Positive Differential Output of Transceiver 1.
2	UART_2_RS485_TXZ1	Differential	Negative Differential Output of Transceiver 1.
3	GND	Power	Ground
4	UART_3_RS485_TXY2	Differential	Positive Differential Output of Transceiver 2.
5	UART_3_RS485_TXZ2	Differential	Negative Differential Output of Transceiver 2.
6	UART_2_RS485_RXA1	Differential	Positive Differential Input of Transceiver 1.
7	UART_2_RS485_RXB1	Differential	Negative Differential Input of Transceiver 1.
8	UART-2_LIN	LIN	LIN bus single-wire transmitter and
9	UART_3_RS485_RXA2	Differential	Positive Differential Input of Transceiver 2.
10	UART_3_RS485_RXB2	Differential	Negative Differential Input of Transceiver 2.

Note:

- * LIN interface is not supported in the default configuration.
- By default, both RS485 interfaces will be configured as Full-Duplex.
- Both the RS485 can be configured as Half-duplex also. To configure RS485_1 as half-duplex, externally connect PIN 1 & 6 and PIN 2 & 7. Similarly, for RS485_2 connect externally PIN 4 & 9 and PIN 5 & 10 to configure it as half-duplex.

2.4.3 RS232&CAN Connector

Connector Part No: 66200821022

Mating connector part No: 662008113322

Supporting Crimp part No: 66200113722DEC

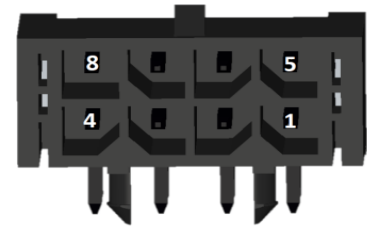


Table 7 : RS232 & CAN Connector Pin Details

Pin No	Signal Name	Signal Type	Signal Description
1	UART_4_RS232_RXD	Input	RS232 Receiver Input.
2	GND	Power	Ground.
3	SPI_1_CAN_L1	Differential	Differential Low signal of Transceiver 1
4	SPI_1_CAN_H1	Differential	Differential High signal of Transceiver 1
5	UART_4_RS232_TXD	Output	RS232 Transmitter output.
6	GND	Power	Ground
7	SPI_2_CAN_L2	Differential	Differential Low signal of Transceiver 2.
8	SPI_2_CAN_H2	Differential	Differential High signal of Transceiver 2.

2.4.4 M.2 Connector Details

Connector Part No: MDT420B03001.

M.2 Connector supports PCIe /USB 2.0/Audio/UIM interfaces.

M.2 is primarily targeted for board types 2242 and 3042 board sizes and Supports PCIe based SSDs, USB or PCIe based WWAN (LTE, GPS).

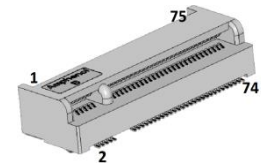


Table 8 :M.2 Connector Pin Detail

Pin No	Signal Name	Signal Type	Signal Description
1	NC	No Connection	No Connection
2	VCC_3V3	Power	3.3V Power Input
3	GND	Power	Ground
4	VCC_3V3	Power	3.3V Power Input
5	GND	Power	Ground
6	FULL_CARD_POWER_OFF#	IO, 3.3V CMOS	Card On-Off
7	USB_D+	Differential	USB Data Positive.
8	W_DISABLE1# (O)(0/3.3V)	IO, 3.3V CMOS	LTE Disable
9	USB_D-	Differential	USB Data Negative.
10	NC	No Connection	No Connection
11	GND	Power	Ground
12	Key	No Connection	No Connection
13	Key	No Connection	No Connection
14	Key	No Connection	No Connection

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Pin No	Signal Name	Signal Type	Signal Description
15	Key	No Connection	No Connection
16	Key	No Connection	No Connection
17	Key	No Connection	No Connection
18	Key	No Connection	No Connection
19	Key	No Connection	No Connection
20	I2S_CLK	I, 1.8V	I2S Clock
21	CONFIG_0	No Connection	No Connection
22	I2S_RX	I, 1.8V	I2S Data IN
23	NC	No Connection	No Connection
24	I2S_TX	O, 1.8V	I2S Data out
25	NC	No Connection	No Connection
26	W_DISABLE_2	I, 1.8V	GNSS Disable
27	GND	Power	Ground
28	I2S_WS	O, 1.8V CMOS	I2S synchronization
29	NC	No Connection	No Connection
30	UIM-RESET (I)	I,1.8V	UIM clock RESET.
31	NC	No Connection	No Connection
32	UIM-CLK (I)	I,1.8V	UIM clock signal.
33	GND	Power	Ground
34	UIM-DATA (I/O)	IO,1.8V	UIM clock signal.
35	NC	No Connection	No Connection
36	UIM-PWR (I)	I,1.8V	Power source for the
37	NC	No Connection	No Connection
38	NC	No Connection	No Connection
39	GND	Power	Ground
40	NC	No Connection	No Connection
41	PERNO	Differential	PCEI Receive Negative
42	NC	No Connection	No Connection
43	PERPO	Differential	PCEI Receive Positive
44	NC	No Connection	No Connection
45	GND	Power	Ground
46	NC	No Connection	No Connection
47	PETNO	Differential	PCIe Transmit Negative
48	NC	No Connection	No Connection
49	PETPO	Differential	PCIe Transmit Positive
50	PERST#	I,3.3V	PCIe RESET
51	GND	Power	Ground

Pin No	Signal Name	Signal Type	Signal Description
52	CLKREQ#	IO,3.3V	PCIe Clock Request
53	REFCLKN	Differential	PCIe Reference Clock
54	PEWAKE#	IO, 3.3V CMOS	PCIe Wake
55	REFCLKP	Differential	PCIe Reference Clock
56	NC	No Connection	No Connection
57	GND	Power	Ground
58	NC	No Connection	No Connection
59	NC	No Connection	No Connection
60	NC	No Connection	No Connection
61	NC	No Connection	No Connection
62	NC	No Connection	No Connection
63	NC	No Connection	No Connection
64	NC	No Connection	No Connection
65	NC	No Connection	No Connection
66	SIM_DETECT (I)	I,1.8V	SIM card Detection
67	RESET#	O,1.8V	Card Reset
68	NC	No Connection	No Connection
69	NC	No Connection	No Connection
70	VCC_3V3	Power	3.3V Power Input
71	GND	Power	Ground
72	VCC_3V3	Power	3.3V Power Input
73	GND	Power	Ground
74	VCC_3V3	Power	3.3V Power Input
75	NC	No Connection	No Connection

2.4.5 Standard Connectors

In this section, the standard connector's part numbers are mentioned. All connector pinouts are as per universal standards.

Table 9 : Standard Connectors Detail

Interface	Connector Description	Connector Part No
USB OTG	Micro USB Type AB Connector	47589-0001
USB 2.0 Host	USB Type A right angle stack	72309-8034BLF
Ethernet Port-1	RJ45 PoE Magjack Connector	7499511440
Ethernet Port-2	RJ45 Magjack Connector	7499111447
Micro SD	Push-Push type 10pin Connector	693071020811
Audio Out	3.5 mm Jack	SJ-43515TS-SMT
Nano SIM	Push-Push type 6Pin Connector	SIM8065-6-1-14-01-A
HDMI	HMDI Connector	685119134923

2.5 Software Specification

iWave HMI deliverables include BSP for Linux/Android and libraries for GUI development.

Linux is a family of free and open-source software operating systems. Yocto framework is used for Linux-based HMI. Linux 4.14.98 kernel and 2018.03 boot loader versions are used in Linux BSP. iWave's Android based HMI is based on Android Nougat version 9.0

As our BSP comes with pre-integrated Open-source GUI libraries and SDK which helps the user to build a rich and interactive GUI on iWave's HMI platform.

2.5.1 BSP Contents and Features

BSP offers flexibility to incorporate Industrial protocols, open-source protocols and applications for any automated GUI Applications. Depending on customer OS requirement (Linux/Android) corresponding Linux BSP or Android BSP will be provided.

Table 10 : BSP Contents

Items	Name	Description
Kernel	Linux 4.14.98	Linux Source code based on 4.14.98 version
Boot loader	U-Boot 2018.03	Primary Boot Loader program
File System	Yocto 2.5 Sumo	Linux file system
Tool Chain	GCC Version 7.3.0 (GCC)	Cross Compiler Tool
Tool	UUU Tool	Flashing Tool
Binaries for Linux	bin, Image & DTB Rootfs	U-Boot Image, Kernel images and Device Tree Binaries, Linux File System
Binaries for Android	U-Boot, Boot Image, Recovery Image, System Boot Image, User Data image	U-Boot Image, Kernel Image & Device Tree, Factory Reset or Reset the Original OS Version, Android File System Application Data Storage for the system

Table 11 : BSP Features

Items	Name	Description
Boot loader	U-Boot 2018.03	Primary Boot Loader Program.
OS	Linux 4.14.98 Android 9.0	Linux OS. Android OS
Drivers supported in Linux and Android	USB	USB driver with Host and OTG support.
	Ethernet	Ethernet Driver with TCP/IP protocol support.
	SDHC	SDHC driver.
	Wi-Fi (SPI/SDIO)	802.11 a/b/g/n/ac Wi-Fi Host-Client support.

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Items	Name	Description
	Bluetooth (UART)	BLE 5.0 with GAP and GATT profile.
	Touch	Capacitive Multi Touch driver.
	UART	RS232, RS485 (full/half duplex).
	SPI	SPI driver.
	I2C	I2C driver.
	PWM	PWM Brightness Control, Buzzer.
	GPIO	GPIO driver.
	Watchdog	Watchdog driver.
	Audio	Audio line-out support.
	LVDS	LVDS display driver.
	CAN	CAN driver.
Linux Library/Packages/ Applications	QT OPEN-Source Libraries	XWayland with QT 5.10 Libraries
	Web Browsers	Web page browsing feature support is provided.
	PDF Viewer	PDF viewer support is provided.
	JRE	Java Run Time support is provided.
	Multimedia Applications	Multimedia Applications like GThumb, VLC, Gstreamer and Image viewer are supported.
	OpenSSL Libraries	OpenSSL library is provided.
	OpenCV Libraries	OpenCV library is provided.
	OpenGL ES 2.0 Libraries	OpenGL library is provided
	OpenVG 1.1 Libraries	OpenVG library is provided
Android Library/Packages/ Applications	Android 9.0 Standard Library/package/Applicatio ns	Library/package/Application Supported in Android version 9.0 is provided.
Diagnostic Testing Applications	Audio	Audio Test Application.
	Buzzer	Buzzer Test Application.
	LCD	RGB pattern display application.
	Touch	Finger paint application.
	Ethernet	Ping with TCP/IP Test.
	Wi-Fi	Connect and Ping Test.
	Bluetooth	Pairing, Connecting and Ping Test.
	RTC	Get/Set Time Test.
Tool Chain	GCC Version 7.3.0	A cross compiler tool to develop Application
Security	Security Features	Secure Storage WIFI Security Secure File system

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Items	Name	Description
		Secure IOT (cloud Communication) AHAB (Secure & encrypted boot) OPTEE (Arm TrustZone architecture) CAAM

2.6 Pre-Compliance Test Specification

iWave HMIs are engineered to meet the below Pre-Compliance test standard.

Table 12 : Pre-Compliance Test Spec

Test Type	Test	Test Standard
Immunity Test	Electrostatic Discharge (ESD)	IEC 61000-4-2:2008
	Electrical Fast Transient (EFT)	IEC 61000-4-4:2012
	Surge	IEC 61000-4-5:2014
	Voltage Dips and Interruption	IEC 61000-4-11:2004/2017
	RF Electromagnetic Field	IEC 61000-4-3:2006/A1:2007/A2:2010
	Power Frequency magnetic field	IEC 61000-4-8:2009
	Conducted Disturbance Induced by	IEC 61000-4-6:2013
Emission Test	Conducted Emission	EN55032/ CISPR32
	Radiated Emission	EN55032/ CISPR32

Note: The above Pre-Compliance tests are in plan.

2.7 Ordering Information

Part Number	Description
iW-G39H-04CI-4L01G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, WiFi and 1X Ethernet, Linux, Industrial Grade
iW-G39H-04AI-4L01G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, WiFi and 2X Ethernet, Industrial Grade
iW-G39H-04DI-4L01G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, No WiFi and 1X Ethernet, Industrial Grade
iW-G39H-04BI-4L01G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, No WiFi and 2X Ethernet, Industrial Grade
iW-G39H-04CI-4L02G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 2GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, WiFi and 1X Ethernet, Linux, Industrial Grade
iW-G39H-04AI-4L02G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 2GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, WiFi and 2X Ethernet, Industrial Grade
iW-G39H-04DI-4L02G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 2GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, No WiFi and 1X Ethernet, Industrial Grade
iW-G39H-04BI-4L02G-E008G-10CA-PBAE-L	10.1" Capacitive touch HMI, i.MX8M Mini Quad, 2GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, No WiFi and 2X Ethernet, Industrial Grade
iW-G39H-04CI-4L01G-E008G-07CA-PBAE-L	7" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, WiFi and 1X Ethernet, Linux, Industrial Grade
iW-G39H-04AI-4L01G-E008G-07CA-PBAE-L	7" Capacitive touch HMI, i.MX8M Mini Quad, 1GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, WiFi and 2X Ethernet, Industrial Grade
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iW-G39H-04BI-4L02G-E008G-07CA-PBAE-L	7" Capacitive touch HMI, i.MX8M Mini Quad, 2GB LPDDR4, 8GB eMMC, Plastic Bezel with AL Heat sink cover, Linux, No WiFi and 2X Ethernet, Industrial Grade

Note: Some Product Part Numbers are subject to MOQ & for different CPU and memory configurations, contact iWave systems.



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