

iW-G39H HMI series

Empowering Smart Automation



iWave Systems G39H solution series include range of advanced industrial HMI with high-performance ARM Cortex-A53 multicore processor, 7-inch and 10.1-inch industrial grade display, wide range of high-speed interfaces and connectivity option to meet emerging automation needs.

G39H SDK enables easy and quick development of customized applications. Advanced UX and computing features are available with 3D graphics and libraries(OpenGL ES 3.1, Vulkan, OpenCL 1.2 and OpenVG 1.1).

Inhouse Hardware, Software and Industrial Design team combinedly delivering a class-leading automation solution to OEMs and System integration markets globally.

HIGHLIGHTS

- Powered by NXP i.MX 8M Mini application processor
- Reliable high brightness display and touch solution
- Expansion Slot for Connectivity, GNSS and Sensor
- 2D/3D graphics, GUI Open-source libraries, and Web browser
- CAN, Modbus Protocols & 4G/Wifi/BT/Ethernet Communication.
- Application ready solution with SDKs on Linux and Android
- Wide operating temperature
- Robust housing with multiple mounting options

APPLICATIONS

- Industrial Automation
- Automotive
- Locomotive
- KIOSK / EV Charger
- Heavy Machinery
- Food and Brewery

CPU
NXP i.MX8M Mini Quad
4 x Cortex-A53 @1.6GHZ
1 x Cortex-M4F @400MHZ
Memory
2GB/1GB LPDDR4 RAM
8GB eMMC Flash
Micro SD x 1 Slot
Interface
CAN FD x 2 ports
RS232 x 1 port and RS485 x 2
Ethernet Up to 1Gbps x 2 *
USB 2.0 Host Type-A Connector x2
USB OTG x 1 port
Audio Line (OUT)
Isolated Digital Input x 2 upto 36V (sinking)
Isolated Digital output x 2 upto 36V (sinking)
Analog Input 4 x 4-20mA or +/-12V
Keypad*
Battery for emergency data Backup*
Buzzer or speaker .7W
External Watchdog Timer
RTC with Coin cell battery
MIPI Camera*
Wireless Communication interfaces
WiFi IEEE 802.11 a/b/g/n/ac
BLE 5.0

Operating System
Linux 4.14.98 & Android Pie 9.0
M.2 Expansion slot
M.2 Connector Key B*(for LTE & positioning or SSD)
PCIe 2.0 x 1, USB 2.0 x 1
Nano SIM Connector /eSIM & External Antenna
Peripheral Expansion
UART/i2C/SPI interface for Plug and Play wireless module & Sensor
Enclosure
Front Bezel & Back cover: Aluminium
Mounting Option: Vesa Mount, Panel Mount & RAM Mount
Ingress Protection: Front IP65
Typical Environment condition
Operating Temperature: -20° C to 65° C
Humidity: 95% @ 40° C
Power Input
9V - 24V DC (Upto 36V)
POE+* and Load Dump Protection (-36V -90V)
LCD Specification
Display size: 7" 10.1"
Resolution: 1024 x 600 1280 x 800
Brightness: 800 cd/m ²
Backlite Life: Minimum 50K Hours
Touch: Projected Capacitive Multi Touch

Note: * Custom or optional features, please contact iWave Systems for information

RELATED PRODUCTS



iW-G39RH HMI series



With the high-performance ARM Cortex A53 processor, the G39RH series HMI forms a powerful embedded platform. Integrated with advanced graphics, video, flexible connectivity, Rich I/Os, and support for multicore processor options, the HMI enables use cases ranging from simple to very complex requirements. Ruggedized HMI is designed to operate in harsh environments and conditions like strong vibrations, extreme temperatures, and wet or dusty conditions. HMI offers various OS and flexible mounting support (Vesa, panel, RAM) with a wide temperature range, and compliance to standard certifications

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

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