

PANEL PC – NXP i.MX8M PLUS Arm® Cortex®CPU

3HI40 Series



FEATURES

- Scalable architectures with NXP i.MX8M PLUS
- SOM 3SM1009, carrier 3PB1001
- Available with different display 7", 10.1", 15.6", 21.5" with CTP
- NPU for AI applications available
- Security subsystem with cryptographic accelerators
- Customizable Panel PC
- Fanless system
- Boxed (CPT) and open frame version (RTP)
- Panel Mount and Standard Vesa mount
- Long longevity support
- HTML 5 supported



APPLICATIONS

- Industrial Automation
- Industrial remote controls
- Construction machinery
- Smart Retail
- Intelligent Grid
- Warehouse Systems
- Vending machines
- Robot Industries

CPU

- NXP i.MX8M Plus Quad/Quad+NPU

MEMORY

- Up to 4 GB LPDDR4

STORAGE / BOOT

- Up to 64 GB eMMC
- µSD slot

DISPLAY AND TOUCH

- Size available 7" - 10.1" - 15.6" – 21.5" IPS up to 1920x1080
- Capacitive touch screen (all size)
- Resistive touch screen (7" – 10.1")

SYSTEM

- Single +12-24 VDC ±10% power supply

PERIPHERALS¹

- Up to 2 x USB 2.0 or 3.1 Host
- Up to 2 x Gigabit Lan
- Up to 4 x RS232 UART
- Up to 2 x CAN FD
- BLE 5.x and Wifi dual band 2.4/5.0GHz IEEE 802.11a/b/g/n
- Audio Output
- 1 x MIPI camera connector
- Temp Sensor
- RTC

TEMPERATURE²

- 0° to 60°C
- -20°C to +70°C

OPERATING SYSTEMS

- Linux Embedded

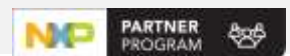
HMI DEVELOP SDK³

- HTML5 supported
- QT

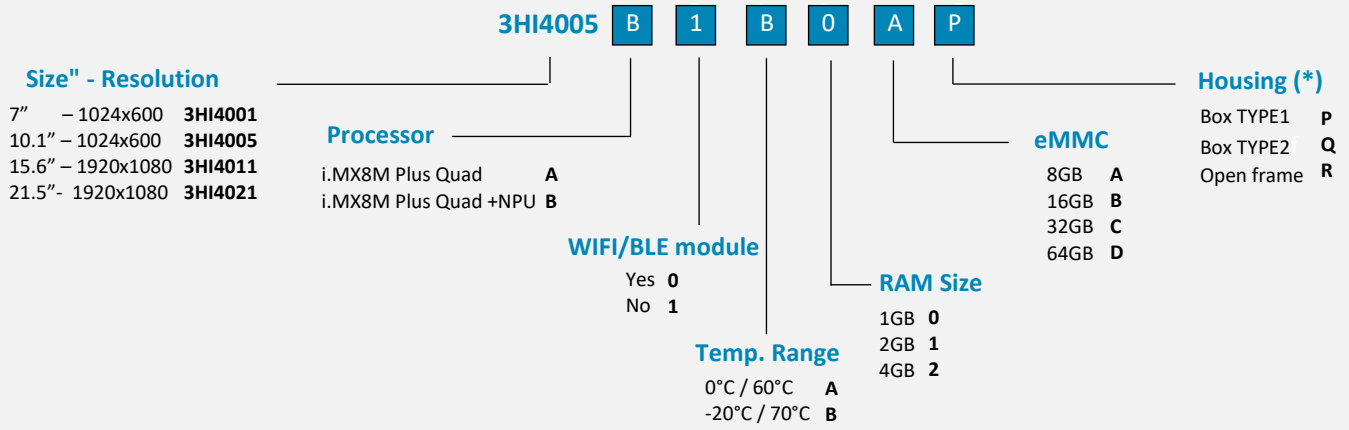
¹ Please note that not all the functions may be available simultaneously, due to pin mux limitation of CPU case. We can check if our SoM is compatible with your application, contact us for more information

² These temperatures are the ambient operating temperature ranges for the components used into SoM, with exception of i.MX8M series which is specified on junction operating temperature range. Panel PC ambient operating temperature depends on the application and on the cooling measures applied

³ QT support is only under requests from Customer, all responsibility and license costs are in charge on customer



Standard Panel PC ordering code



No all code combinations are allowed, for more information on ordering codes please contact Elettronica GF sales department

(*) BOX Type 1: all Display Size only CTP

(*) BOX Type 2: only 7" - 10,1" CTP

(*) Open Frame: only 7" - 10,1" RTP

