PANEL PC – NXP i.MX8M Mini Arm® Cortex®CPU
3HI30 Series

FEATURES

- Scalable architectures with all NXP i.MX8M Mini
- SOM 3SM1008M, carrier 3PB1002
- Available with different display 7", 10.1", 15.6", 21.5" with CTP
- 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 Mini Dual/Quad up to 1,8GHz

MEMORY

- Up to 4 GB DDR4 32bit

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

PERIPHERALS[1]

- USB 2.0 Host
- USB 2.0 OTG
- Ethernet 1Gbps
- 1 x CAN BUS Interface with integrated Transceiver
- RS-232 (with hardware flow-control)
- RS-485 full duplex
- Expansion Connector
- BLE 5.0
- WiFi 2.4/5.0 GHz IEEE 802.11 b/g/n
- Buzzer
- Temperature sensor
- RTC
- microSD slot

TEMPERATURE[2]

- 0° to 60°C
- -20°C to +70°C

OPERATING SYSTEMS

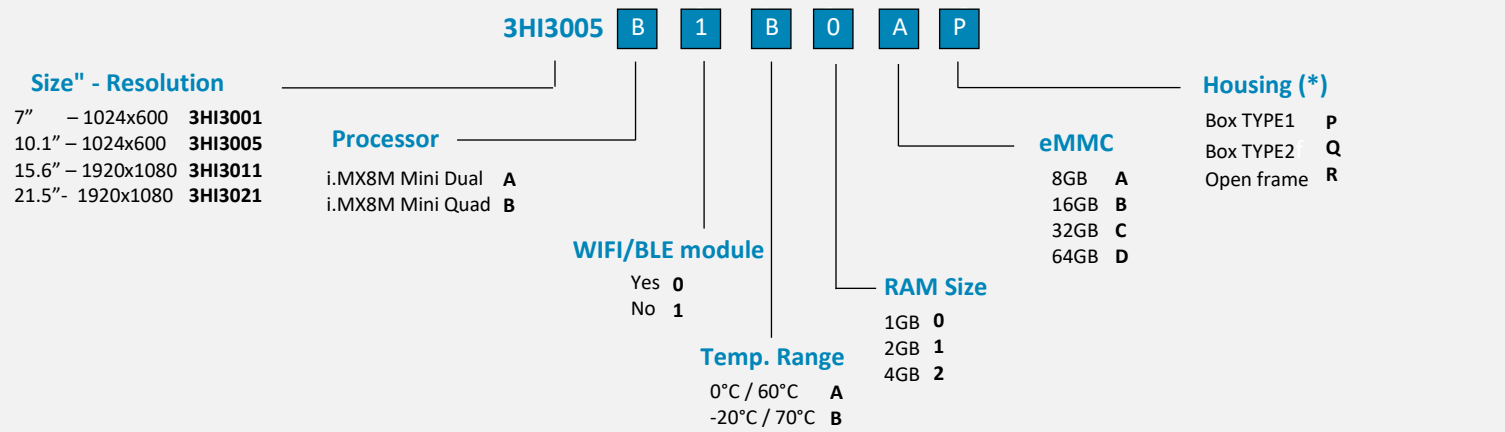- Linux Embedded

HMI DEVELOP SDK[3]

- 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 Costumer, all responsibility and license costs are in charge on costumer

Standard Panel PC ordering code

3HI3005 **B** **1** **B** **0** **A** **P**

Size" - Resolution

7” – 1024x600	**3HI3001**
10.1” – 1024x600	**3HI3005**
15.6” – 1920x1080	**3HI3011**
21.5”- 1920x1080	**3HI3021**

Processor

i.MX8M Mini Dual **A**
i.MX8M Mini Quad **B**

WIFI/BLE module

Yes **0**
No **1**

Temp. Range

0°C / 60°C **A**
-20°C / 70°C **B**

RAM Size

1GB **0**
2GB **1**
4GB **2**

eMMC

8GB **A**
16GB **B**
32GB **C**
64GB **D**

Housing (*)

Box TYPE1 **P**
Box TYPE2 **Q**
Open frame **R**

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

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