Embedded MPU Display Solutions

The challenge of embedded system design nowadays needs greater flexibility and reliability to meet customer demand. Inelco Hunter has therefore developed a range of ARM MPU and MCU based products that will speed up development and reduce cost and time to market.

Based on Inelco Hunter's latest embedded platform, customers can focus on their higher-level software application, development and end product integration. If you need any changes, Inelco Hunter can provide the necessary engineering support for both hardware and software as a customisation service.

TYPICAL APPLICATIONS:

Industrial Controls

- MC Tool & Production Control

- Instrumentation

- Test and Calibration

- MC Tool Camera Systems

Building Automation

- Smart BEMS Control & Monitoring

- Smart Home Control Systems

- Energy and Monitoring Systems

Fire and Security

- Fire Panels

- Alarm and Security Panels

- Access Control and Door Entry Systems

- X-Ray & Digital Security Scanning

Kiosk

- POS Terminals

- Vending and Payment Terminals

- Digital Signage and Information Systems

Medical

- Patient Monitoring & Diagnostic Equipment

- Operating Theatre Equipment

- DNA Analysis and Data Capture

- Cosmetic & Skin Laser Treatment Systems
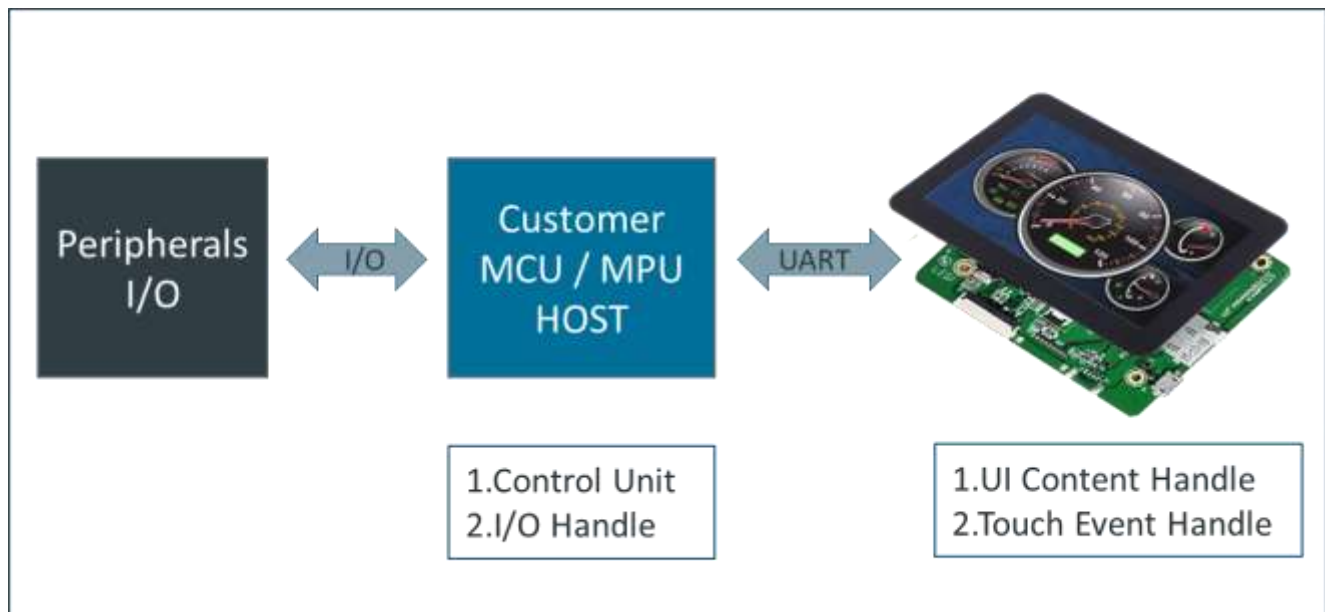
- Emergency & Resuscitation Equipment

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MPU Features:

Our ARM MPU products, integrated with System on Module (SoM), and TFT-LCD display module allow easy implementation of Human Machine Interfaces (HMI) applications. Several peripheral interfaces (I2C, UART, SPI, USB2.0, PWM, I2S), with the hardware video decoding capability on our embedded system board allowing connection to different interface display modules such as RGB, LVDS and MIPI-DSI.

Supported operating systems include Linux and Android. We also offer Board Support Packages (BSP) as free downloads for our customers to build their own root file system to aid and accelerate the development on their embedded system for HMI solutions. Applications can be developed by using QT library or from a variety of Python libraries available for embedded systems.
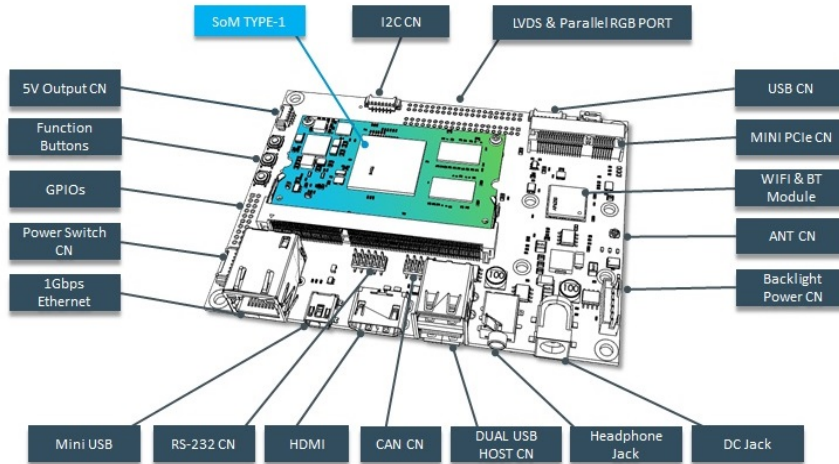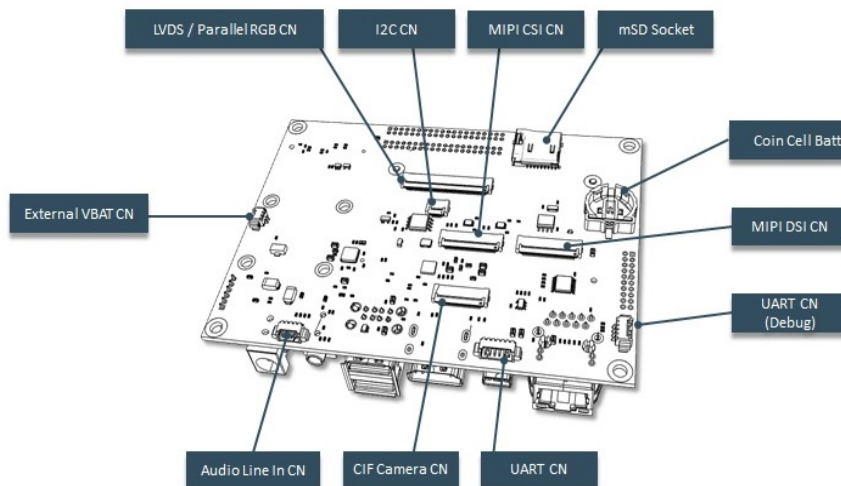
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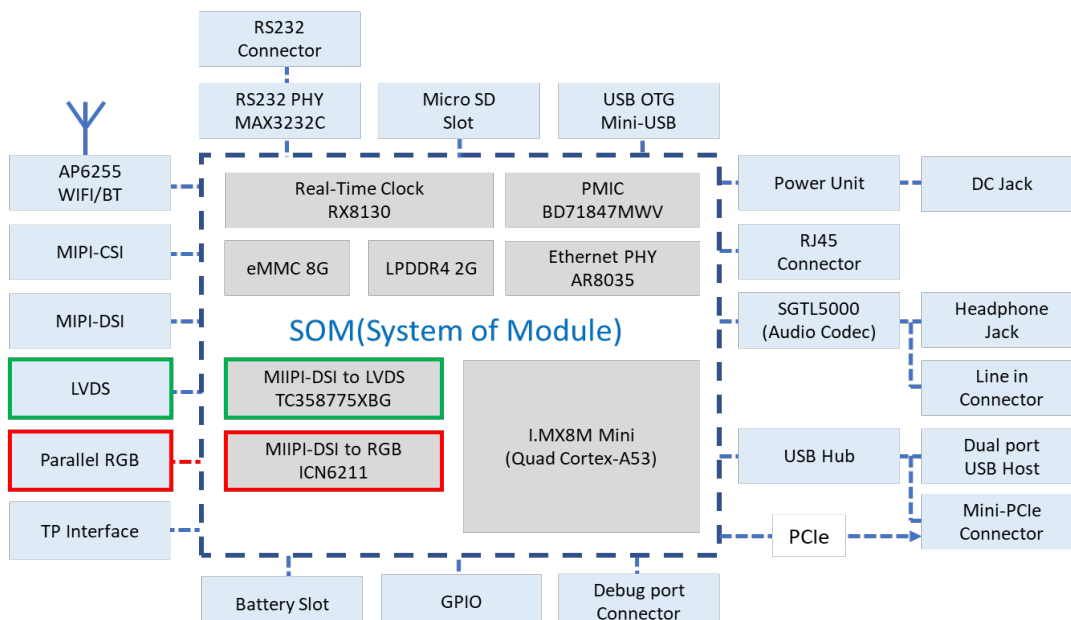
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MPU Benefits: Based on our embedded platform, customers can focus on their higher-level software application development and integration rather than developing a whole new ecosystem.

(SoM TYPE-1 Carrier Board - Top Side)

(SoM TYPE-1 Carrier Board - Bottom Side)

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Inelco Hunter Limited
specialist supplier of electronic components & solutions

Embedded Solution

MPU-based SOM TYPE-1

	P05D00064-02	P05D00065-01	P05D00073-01	P05D00075-01
MPU	RK3288 / RK3288K	i.MX6DL	PX30	i.MX8M Mini
ARCH.	1.6 GHz Quad Core 32 bit ARM Cortex-A17	1.0 GHz Dual Core 32 bit ARM Cortex-A9	1.6 GHz Quad Core 64 bit ARM Cortex-A35	1.6 GHz Quad Core 64 bit ARM Cortex-A53 with Cortex-M4
RAM	2GB DDR3L	2GB DDR3L	2GB DDR3L	2GB LPDDR4
FLASH	8GB eMMC	8GB eMMC	8GB eMMC	8GB eMMC
IO PORT	UART, I2C, SPI, Ethernet, MIPI CSI, GPIO, SDIO, I2S	UART, I2C, SPI, Ethernet, MIPI CSI, CAN, GPIO, SDIO, I2S, PCIe	UART, I2C, SPI, Ethernet, MIPI CSI, GPIO, SDIO, I2S	UART, I2C, SPI, Ethernet, MIPI CSI, CAN, GPIO, SDIO, I2S, PCIe
Display Resolution	Up to 1920x1080	Up to 1920x1080	Up to 1920x1080	Up to 1920x1080
Display Interface	HDMI, LVDS, MIPI DSI, eDP, Parallel TTL RGB	HDMI, LVDS, MIPI DSI, Parallel TTL RGB	LVDS, MIPI DSI, Parallel TTL RGB	LVDS, MIPI DSI, Parallel TTL RGB

- Standard Display 5" to 10.1"
- Capacitive Touch panel, OCR bonding
- BSP (board support package)
- EMI/EMC certificated
- IPC-A-610 certification
- Standard Carrier Board