

HMI PLUS 10,1" MAS

MAS
ELETTRONICA



HMI

Processor

NXp i.Mx8M Quad core

Display

10,1" 1024x600
with Capacitive Touch Pannel

Software

Linux, Yocto



Application areas



INDUSTRIAL



AUTOMOTIVE



MEDICAL

Introduction

The HMI PLUS MAS family is a quality and high performance product based on IMX8M technology. Designed to work in Industrial, Automotive and medical environment.

www.maselettronica.com

Specification

CPU

| | |
|------------|---|
| CPU Type | x1: i.MX8MSolo x2: i.MX8MDual x4: i.MX8MQuad |
| Core Class | ARM Cortex – A53 ARM Cortex M4 400 Mhz |
| Core Clock | X1: 1.8 GHz X2: 1.8 GHz X4: 1.8 GHz |
| Cache | x1: L1 cache: 32 KB for instruction and data caches per core; 512 KB L2 cache x2: L1 cache: 32 KB for instruction and data caches per core; 1 MB L2 cache x4: L1 cache: 32 KB for instruction and data caches per core; 1 MB L2 cache |
| GPU | 1x GC NanoUltra 3D Graphics |

Memory

| | |
|--------------|--|
| Emmc | 4/8/16/32 GB MLC eMMC |
| RAM | x1: Up to 4Gbyte LPDDR4 memory 3200 MT/s x2: Up to 4Gbyte LPDDR4 memory 3200 MT/s x4: Up to 4Gbyte LPDDR4 memory 3200 MT/s |
| SD-Card Slot | 4 bit MMC/SDIO/SD/SDHC |
| Supported OS | Linux Yocto |

Communication Interfaces

| | |
|-------------|--|
| Digital I/O | 6 GPIO 3V3 1x SPI, 2x I2C |
| Network | 1x 10/100/1000 Mbit/s Ethernet (RJ-45) |
| USB | 2x 480 Mbit/s Host (Type A), 1x 480 Mbit/s OTG (Type Micro-AB) |
| CAN | x1: 2x CAN (ISO/DIS 11898) From internal board |
| RS-485 | Up to 2x RS-485 (Half duplex) |
| RS-232 | 2x RS-232 (RX/TX/CTS/RTS) |

Expansion Slot

| | |
|-------------------|--|
| MiniPcie | 1x Expansion slot for Minipcie boards |
| 4G expansion slot | 1x Expansion slot for Minipcie 4G/LTE boards |

Video

| | |
|--------------|--------------|
| Video output | Full HD HDMI |
|--------------|--------------|

Display and Touch

| | |
|---------------|----------------------------|
| Size | 10.1" |
| Resolution | 1024 x 600 pixel |
| Brightness | Typ. 330 cd/m ² |
| Viewing Angle | 65°,55°,65°,65° (UDRL) |
| Color | 262144 |
| Touch | Capacitive Touch FT5526 |

Housing

| | |
|---------|-----------|
| Housing | Aluminium |
|---------|-----------|

Device Dimensions

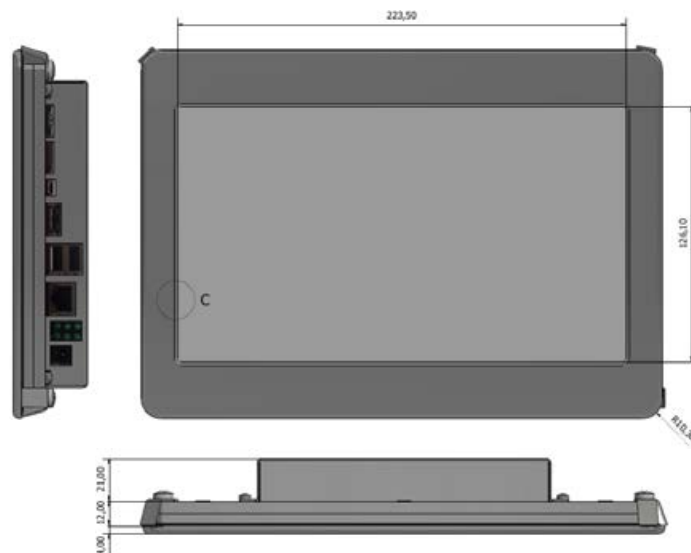
| | |
|--------|-------------------------|
| WxHxD | 264.3 x 181.1 x 37.7 mm |
| Weight | TBD |

Power Supply

| | |
|-------------|----------------|
| Supply | Nom. 9-36 V DC |
| Consumption | MAX 10.2 W |

Typical Environmental Conditions

| | |
|-----------------|--------------|
| Storage Temp. | -20...+70 °C |
| Operating Temp. | 0...+60 °C |



Certifications

★ European CE Mark

The i.MX8M Mini CPU product is CE compliant

The CE mark indicate that the product is compliant to all the European Community Directive. MAS Elettronica is not liable about the use of their products associated to other devices not CE Compliant and not compliant with the technical requirements of this document.

★ RoHS and REACH Directive

This product (include all the components, materials for packaging, etc.) must be compliant with the RoHS European directive 2002/95/CE (known as RoHS, Restriction on the use of certain Hazardous Substances) for the use of particular dangerous material on electrical equipment (AEE)

RoHS Directive 2011/65/EU

EN 50581:2012

EN 62321:2009

REACH Regulation (EC) No 1907/2006

