COMBO Multi-Touch HMI Series

Compact and Projective Capacitive Touch HMI with Wide Temperature and Voltage Support Powered by NXP i.MX 6 Series Family

In IPC market, a robust and highly reliable Panel PC system is a must to ensure non-stop and stable operation on production line. Featuring cost effective and power efficiency, COMBO Series is an ideal HMI in factory automation, food and beverage industry, data collecting equipment environments.

Product Introduction

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COMBO Series HMI is a new era and innovation of Portwell's standard HMI product line. Powered by NXP i.MX6 processor, the cost effective and power efficient HMI comes with one Gigabit Ethernet, two USB 2.0 hosts, one OTG, one HDMI input port, one HDMI output port, one serial port, one CAN port, a wide range DC input from DC 12V to 24V and an optional Wi-Fi/3G/4G LTE feature. Besides, it is equipped with 512MB or 2GB DDR3 memory down and 8GB eMMC, which targets to support mission-critical industrial applications.

COMBO Series HMI can boot from the onboard eMMC or SD card to Yocto Linux 4.1.15 kernel version or Android 6.0 operating systems via U-Boot boot loader, specially customized to take full advantage of the i.MX6 CPU 3D graphics acceleration capabilities. To sum up, COMBO Series HMI is a ready platform for all kind of industrial applications, including factory automation, machine automation, data collecting and energy-saving control systems.

HMI with NXP i.MX 6 Solo/Quad-core Processor

The i.MX 6 series processors unleash a scalable multi-core platform that includes single-, dual- and quad-core families based on the ARM[®] Cortex[™] A9 architecture for next generation industrial applications. By combining the power-efficient processing capabilities with bleeding edge 3D and 2D graphics, as well as high-definition video, the i.MX 6 series provides a new level of multimedia performance to enable an unbounded next generation user experience. The unprecedented levels of performance and power efficiency making it an ideal solution for designs requiring high performance in low power or thermally constrained cost-sensitive devices.



10.1"

HDMI Input SD Card

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CAN Bus Connectivity

COMBO Series HMI features CAN Bus specifictation version 2.0B, which supports both standard and extended message frames communication, making it a suitable equipment for applications such as cars, trucks, tractors, trains, agricultural machinery, textile machinery, etc. With a high degree of reliability and stability, CAN Bus is also widely used in industrial control.



* The picture of COMBO-S1020



Wide Operating Temperature Support with Fan-less Design

COMBO Series HMI takes advantage of NXP i.MX6 family to operate under extremely hot and cold conditions. Compared to most HMI in the market, the operating temperature of COMBO Series HMI can be as low as -20°C or up to 60°C in spite of its fan-less design. Moreover, the cable-less structure optimizes the thermal dissipation as well as makes it more durable in rugged environments.

Projective Capacitive Multi-Touch Screen

By adopting antiscratch surface with 7H hardness protection, high touch durability and long-term stability are built-in features of COMBO Series HMI. 10-points multi-touch supports a full set of gestures such as zooming in/out, panning, or rotating, giving users a whole new way to control and interact with what's on the screen even with surgical gloves or thin cotton gloves.



