



SYS-A62-10

Embedded Panel with 10.1" LCD display based on the Multicore NXP i.MX 6 SoC family

Flexible, Open-source, Industrial system



HIGHLIGHTS



CPU

Solo, Dual Lite and Quad- Core (ARM® Cortex® A9 Cores)



CONNECTIVITY

Wi-Fi add-on module; up 22 GPIOs; CAN Bus



GRAPHICS

30K hours 10.1" LVDS display with projected capacitive touchscreen integrated



MEMORY

Up to 1GB DDR3L on-board



MAIN FIELDS OF APPLICATION



Digital Signage -
Infotainment



HMI



Industrial
Internet of
Things



Point of Sales



Vending

FEATURES

Processor	Multicore NXP i.MX 6 processor family SYS-A62-10/SOLO: i.MX6S Solo, 1 x ARM Cortex-A9 @1 GHz Core SYS-A62-10/LITE: i.MX6DL Dual Lite, 2 x ARM Cortex-A9 @1 GHz Cores SYS-A62-10/QUAD: i.MX6Q Quad, 4 x ARM Cortex-A9 @1 GHz Cores	Other Interfaces	MIPI-CSI Camera connector Programmable expansion connector with: SYS-A62-10/SOLO: up to 22 GPIOs, 2 x TTL CAN ports, 1 x UART TTL, 3 x PWM, 2 x I2C, SD, SPI or S/PDIF interfaces SYS-A62-10/LITE: up to 20 GPIOs, 1 x TTL CAN port, 1 x UART TTL, 3 x PWM, 2 x I2C, SD, SPI or S/PDIF interfaces SYS-A62-10/QUAD: up to 18 GPIOs, 1 x TTL CAN port, 3 x PWM, 2 x I2C, SD, SPI or S/PDIF interfaces
Memory	On-board DDR3L soldered memory; SYS-A62-10/SOLO: 512MB 32-bit SYS-A62-10/LITE: 1GB 64-bit SYS-A62-10/QUAD: 1GB 64-bit	Power Supply	+12V _{oc} SYS-A62-10/SOLO and SYS-A62-10/LITE: internal i.MX6 RTC, require external battery for time/data retention SYS-A62-10/QUAD: low power RTC with on-board battery
Embedded Graphics	2D, OpenGL® ES2.0 3D HW accelerator OpenVG™ accelerator (SYS-A62-10/QUAD only) HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4 / XviD, H.263, H.264, DivX	Operating System	Linux Yocto Windows® Embedded Compact 7
Video Section	10.1" LVDS display, resolution 1280 x 800, 30K hours life P-Cap (Projected Capacitive touch screen), with 2mm glass cover Glass Hardness IK08, Surface Hardness 8H (450g)	Operating Temperature*	0°C ÷ 50°C
Mass Storage	On-board 4GB eMMC drive microSD Card Slot SATA Connector (SYS-A62-10/QUAD only)	Dimensions	269,60 x 189,20 x 17,17 mm
Networking	Gigabit Ethernet connector Optional WiFi pluggable module	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
USB	2 x USB 2.0 Type-A ports and 1 x USB 2.0 internal connector USB micro-B Client port		
Audio	SYS-A62-10/LITE and SYS-A62-10/QUAD: Realtek ALC655 AC'97 Audio Codec with Mic-In, Line-Out audio Jacks		
Serial Ports	Dedicated Serial ports: SYS-A62-10/SOLO: 2 x RS-232 ports SYS-A62-10/LITE: 2 x RS-232 ports, 1 x CAN port SYS-A62-10/QUAD: 2 x RS-232 ports, 1 x RS-485 port, 1 x CAN port Other serial ports can be realised on expansion connector (see "Other interfaces")		

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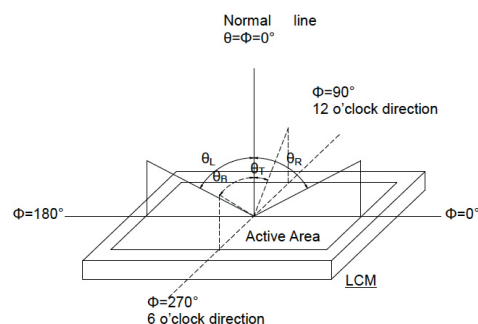
TFT LCD MODULE

Display touch kit specifications

- P-Cap (Projected-Capacitive touch technology) - Glass cover
- Glass Hardness: 1K08
- Surface Hardness: 8H (450g)
- Thickness: 2mm
- Optical bonding

LCD General specifications

Item	Specification
LCD size	10.1 inch
Resolution	1280 (RGB)X800
Display mode	Normally black
Pixel pitch	0.1695(W)X0.1695(H) mm
Active area	216.96 (W)X135.60 (H) mm
Module size	227.72(W)X147.8(H)X2.5(D)mm
Pixel arrangement	RGB-stripe
Surface Treatment	HC, Hardness 2H
Interface	LVDS
Luminance	280cd/m ² (MIN) 350cd/m ² (TYP)
Backlight power consumption	2.16W
Panel power consumption	0.8W



Optical specifications

Item	Symbol	Condition	Values (degree)		
			Min.	Typ.	Max.
Viewing angle (CR ≥ 10)	θ _L	Φ=180° (9 o'clock)	-	85	-
	θ _R	Φ=0° (3 o'clock)	-	85	-
	θ _T	Φ=90° (12 o'clock)	-	85	-
	θ _B	Φ=270° (6 o'clock)	-	85	-