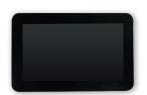
SYS-B08-7

Embedded Panel with 7" LCD display based on the NXP i.MX 6SoloX Processor

Smart, compact, industrial 7" touch system built for IoT



NXP i.MX6SX SoloX Processor, Single core Cortex®-A9 @ 1GHz + Cortex®-M4 core @ 227MHz

up to 2x Fast Eth: optional WiFi + BT LE



Integrated Graphics Vivante GC400T, 2D and 3D HW



32-bit DDR3L memory soldered on-board, up to 1GB





















Digital Signage -Infotainment

НМІ

Home Automation

Industrial Automation

Info Kiosks

Industrial Internet of Things

6 analog inputs for A/D Conversion

Multimedia devices

2 x I2C dedicated connectors (one reserved for Touch Screen)

Programmable (*) expansion pin header connector, able to offer: • CSI interface input (PAL and NTSC formats supported)

FE <i>F</i>	ATURES	
	Processor	NXP i.MX 6SoloX Processor, Single core Cortex®-A9 @ 1GHz -Cortex®-M4 core @ 227MHz
8	Max Cores	1 + 1
Ħ	Memory	Soldered on-board DDR3L memory, 32-bit interface SYS-B08-BASIC/D: 512MB SYS-B08-FULL/D: 1GB
Ş	Graphics	Integrated Graphics Vivante GC400T, 2D and 3D HW accelerator OpenGL ES 2.0, OpenGL ES 1.1, OpenVG 1.1 supported
1911	Video Interfaces	Single Channel 18-/24- bit LVDS connector + Touch Screen (I2C signals) 24-bit Parallel RGB Connector
	Video Resolution	LVDS: up to 1366x768 @60Hz, 24bpp RGB: up to 1920x1080p @60Hz, 24bpp
9	Mass Storage	16MB NOR Quad-SPI Flash soldered onboard µSD Card slot SYS-B08-FULL/D: 8GB eMMC soldered onboard
昦	Networking	SYS-B08-BASIC/D: 1x Fast Ethernet RJ-45 connector SYS-B08-FULL/D: 2x Fast Ethernet RJ-45 connector + WiFi (802.11 b/g/n) +BT LE combo module + antenna onboard
•<	USB	1 x USB 2.0 OTG port 3 x USB 2.0 Host port on standard Type-A socket 1 x USB 2.0 Host port on internal pin header
Ш	Audio	I2S Audio interface on programmable pin header S/PDIF interface (In and Out) on programmable pin header
<u>German</u>	Serial Ports	1 x CAN Port reconfigurable as GPIO 2x RS-232 (Tx/RX signals only) + 1x RS-485 serial ports on
		Max Cores Memory Graphics Video Interfaces Video Resolution Mass Storage Networking USB

expansion pin header

• Up to 20 GPIO SPI interface • SPDIF Audio interface

• I2S Audio interface

 CAN interface (TTL level) • 5 x PWM

• 3 x I2C

• 3 x serial ports (2x RS-232 +1xRS-485 interface)

Embedded Low Power RTC

(*) Please note that some of these interfaces are factory options, other configurations are made via SW using the pin multiplexing possibilities of the i.MX6SX processor.

Sensors Power Supply

Integrated

Other

Interfaces

Optional 9-Axis Motion Sensors (Accelerometer, Magnetometer and Digital Gyroscope)

Operating Linux System Yocto

 $+12V_{DC}$ nominal voltage +3V_{DC} cabled Coin Cell Battery

Operating Temperature³

 $0^{\circ}\text{C} \div +60^{\circ}\text{C}$

Dimensions

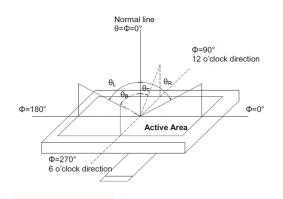
189.60 x 121.40 x 28.20 mm

*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 applicationspecific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.



TFT LCD MODULE

- 5-point multitouch
- AsaHi glass with hardness 1.2J at fall-drop condition as 100cm + 130g steel ball



O 11	
()ntical	specifica
Optical	эрсстіса

Item	Symbol	Condition	Min	Тур	Max	Unit
Contrast ratio	CR	Θ = 0°	400	500	-	
D #:	Ton	25°C	-	10	20	Ms
Response time	Toff		-	15	30	
	ΘТ	CR≥10	40	50	-	deg
View engles	ΘВ		60	70	-	deg
View angles	ΘL		60	70	-	deg
	ΘR		60	70	-	deg
Luminance	L		-	500	-	cd/m²
Uniformity	U		75	-	-	%

LCD size

LCD size	7.0 inch (Diagonal)		
Technology Type	a-Si TFT		
Resolution	800*480 pixels		
Module size (W*H*T)	189.55*121.39*6.50 mm		
Active area (W*H)	154.08*85.92 mm		
Pixel pitch	0.1926*0.1790		
Interface Type	RGB		

LED

Specification

Suggested thickness 3mm

Backlight Type

