# Modular HM



### 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

_	HIGHLIGHTS					
	@ 1GHz + Cortex®-M4					
	GRAPHICS Integrated Graphics Vir accelerator	vante GC400T, 2D and 3D HW MEMORY 32-bit DDR3L memory soldered on-board, up to 1GB				
1		•				
MAIN FIELD	S OF APPLICATION					
		ustrial Info Kiosks Industrial Multimedia mation Internet of devices Things				
FEATURES						
Processor	NXP <b>i.MX 6SoloX</b> Processor, Single core Cortex <sup>®</sup> -A9 @ 1GHz + Cortex <sup>®</sup> -M4 core @ 227MHz	2 x I2C dedicated connectors (one reserved for Touch Screen) 6 analog inputs for A/D Conversion Programmable (*) expansion pin header connector, able to offer:				
Max Core		<ul> <li>CSI interface input (PAL and NTSC formats supported)</li> </ul>				
A Memory	Soldered on-board DDR3L memory, 32-bit interface SYS-B08-BASIC/D: 512MB SYS-B08-FULL/D: 1GB	Up to 20 GPIO     SPI interface     SPDIF Audio interface     I2S Audio interface				
Graphics	Integrated Graphics Vivante GC400T, 2D and 3D HW accelerator OpenGL ES 2.0, OpenGL ES 1.1, OpenVG 1.1 supported	Other Interfaces Other CAN interface (TTL level) 5 x PWM 3 x I2C				
Video Interfaces	Single Channel 18-/24- bit LVDS connector + Touch Screen (I2C signals) 24-bit Parallel RGB Connector	• 3 x serial ports (2x RS-232 +1xRS-485 interface) Embedded Low Power RTC				
Video Resolutio	LVDS: up to 1366x768 @60Hz, 24bpp	(*) 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.				
Mass Sto	SIS-BU8-FULL/D: 8GB EIVING soldered onboard	Integrated Sensors         Optional 9-Axis Motion Sensors (Accelerometer, Magnetometer and Digital Gyroscope)				
- 品 Networkin	WIFI (802.11 b/g/n) +BT LE combo module + antenna	Power +12V <sub>pc</sub> nominal voltage +3V <sub>pc</sub> cabled Coin Cell Battery				
	onboard 1 x USB 2.0 OTG port	Operating         Linux           System         Yocto				
•⇐ USB	3 x USB 2.0 Host port on standard Type-A socket 1 x USB 2.0 Host port on internal pin header	Operating Temperature* 0°C ÷ +60°C				
Audio	I2S Audio interface on programmable pin header S/PDIF interface (In and Out) on programmable pin header	L Dimensions 189.60 x 121.40 x 28.20 mm				
🚥 Serial Po	1 x CAN Port reconfigurable as GPIO 2x RS-232 (Tx/RX signals only) + 1x RS-485 serial ports on expansion pin header ** Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend or application, enclosure and/or environment. Upon customer to consider application specific cooling solutions for the final system to keep the heatspreader temperature					

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



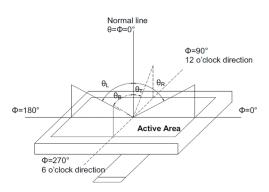
## SYS-B08-7

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

## TFT LCD MODULE

ouchscreen specifications

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



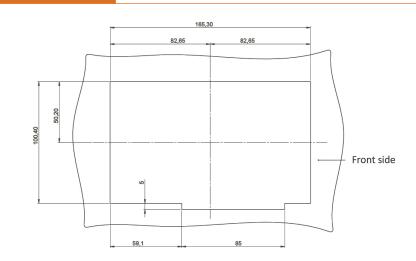
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LCD General specifications				
Item	Specification			
LCD size	7.0 inch (Diagonal)			
Technology Type	a-Si TFT			
Resolution	800*480 pixels			
Module size (W*H*T)	189.55*121.39*6.50 mm			
Active area (W*H)	154.08*85.92 mm			
Pixel pitch	0.1926*0.1790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

Optical spec	S					
Item	Symbol	Condition	Min	Тур	Мах	Unit
Contrast ratio	CR	$\Theta = 0^{\circ}$	400	500	-	
Doononoo timoo	Ton	25°C	-	10	20	Ms
Response time	Toff		-	15	30	
	ΘΤ	CR≥10	40	50	-	deg
View engles	ΘB		60	70	-	deg
View angles	ΘL		60	70	-	deg
	ΘR		60	70	-	deg
Luminance	L		-	500	-	cd/m²
Uniformity	U		75	-	-	%

#### Required housing dimensions for the system (mm)

Suggested thickness 3mm





050.21

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SECO: SYS-B08-BASIC/D SYS-B08-FULL/D