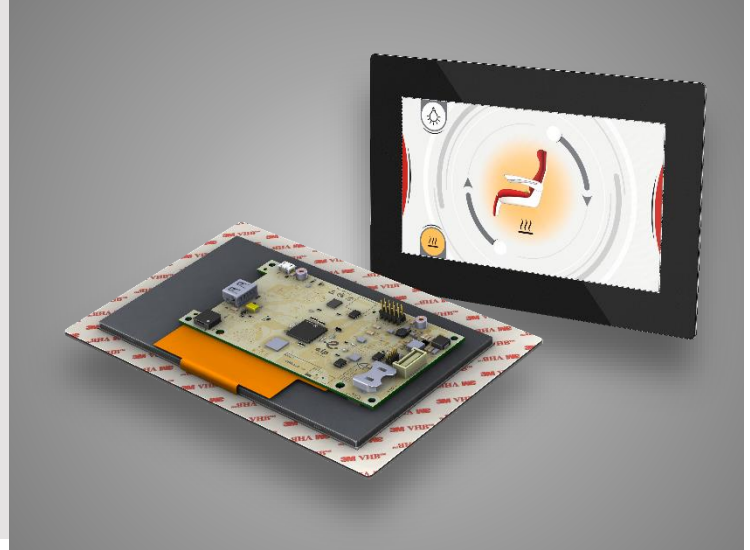


High Performance HMI – SIMx73

High Performance for Leading-Edge Embedded HMI Projects

Key Features & Benefits

- Supports open-source OS and high scalability.
- Focused secure implementation.
- Enables rich GUI implementations with balanced power consumption.
- Ultimate combination of design flexibility and performance.



Technical Specifications

Product	Family	SIMx73			
	Operating & Storage Temperature	-40°C to +85°C			
Relative Humidity	≤90% non-condensing @≤50°C and ≤60%@≥50°C				
SIMx73 Variants	A00	A90	A92	A99	
Development Accessory Kit	SIMDKA-A60				
MOQ	5 or 10 pcs				
Type	Standard / Special order				
Display	Diagonal Size	7"			
	Touch Panel Technology	Capacitive Touch			
	Screen Type	IPS-TFT			
	Viewing Type	Full View (MVA)			
	Orientation	Landscape			
	Resolution	1024X600			
	Brightness (Luminance)	500+ nits or +800 nits			
	Color Depth	24-bit, 16.7M Colors			
	Backlight Life (hrs)	30K or 50K			
	Cover Glass Lens	~1mm			
LCD Operating Temperature	-20°C / +70°C				
Video	3D or Advanced Graphics	YES			
	Video Playback (fps)	MIN. 24 fps			

Platform / Framework	Embedded OS	Embedded, Linux			
	USB Device & Host Stack	Terminal Access / CDC-USB Updates			
	Distribution & Network	Ubuntu / Yocto			
	GUI/GDE	QT and Crank			
	Debug/Probes	Segger J-Link or equivalent			
Processor	MCU Processor Series	RENESAS RZ/G2LC (R9A07G044C12GBG)			
	MCU Core & Count	1x ARM® Cortex® -A55 64-bit 1.2 GHz 1x ARM® Cortex® -M33 200 MHz & ARM® Mali™-G31 500MHz			
	Program Memory Flash (RAM)	128kB w/Error Correction Code (ECC)			
	IC CryptoAuthentication I²C	EEPROM			
	eMMC Secure Partition	YES			
SIMx21 Variants		A00	A90	A92	A99
LED Indicator(s)	'Kernel' Indicator LED (Green)	✓	✓	✓	✓
	'User' Indicator LED (Green)	✓	✓	✓	✓
	'Power' Indicator LED (Green)	✓	✓	✓	✓
Power	Separate Signal & Chassis Ground	✓	✓	✓	✓
	Main Power Input (VDC)	7-35	7-35	7-35	5
	External Reset	✓	✓	✓	✓
	LCD Backlight Dimming Control	✓	-	-	✓
Memory	DDR3L-1866 (Gb)	2Gb (128Mx16)	2Gb (128Mx16)	2Gb (128Mx16)	2Gb (128Mx16)
	RAM Speed (MHz)	933 MHz 20ns	933 MHz 20ns	933 MHz 20ns	933 MHz 20ns
	e.MMC FLASH v5.1(Gb)	8	4	4	4
Ports Connectors Channels	USB 2.0 FS (12 Mbps) Device Port	1	1	1	1
	USB 2.0 FS (12 Mbps) Device on Micro-B Port	✓	✓	✓	✓
	USB 2.0 HS (480 Mbps) Host Port	1	1	1	-
	USB 2.0 HS (480 Mbps) Host on Type-A Port	✓	✓	✓	-
	RS485 Half Duplex Transceiver	✓	✓	✓	-
	RS4XX Termination	✓	✓	✓	-
	CAN/CANFD (Network Ready w/Transceiver)	✓	-	-	-
	UART 10P/16P B2B Exp Header or Conn	-	10P HDR	10P HDR	10P HDR
	16P W2B Connector	1	1	1	-
Wireless	WiFi 802.11 b/g/n	✓	-	✓	-
	Bluetooth 5.0 2.4 GHz	✓	-	✓	-
Peripherals	Battery Backed RTCC	✓	✓	✓	✓
	RGB LED Strip Driver & 4P Connector	✓	-	-	-
	RTP4 Controller	✓	-	-	-
	Electro-Mechanical Sounder	-	✓	✓	-
	I²S audio on B2B header	-	-	-	✓
	3W Codec/Amplifier & 2P Connector	✓	-	-	-
Expansion Riser/Daughter Card Standoffs (M3x0.5)		1 (GND)	1+1 (GND)	1+1 (GND)	1+3 (GND)



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