

Standard HMI - SIMx21

High value and flexible base for your embedded HMI project.

Key Features & Benefits

- Scalable and power efficient
- Combines all necessary functions for your product
- Well suited for all real-time control applications
- Provides high performance without excessive complexity



Technical Specifications

PRODUCT	Family	SIMx21
	Not all combinations are possible. Please contact our E2IP team for more information.	
	Variant	A01 / A90 / A91 / A92 / A98 / A99
	LCD	R43ALMBA / E53ALMBN / C43ALMDK / C43ALMDM / C53AWSEK / C53AWSEM / R43ALLDA / R43AWSEA / C53AWSEM
	LCD special features	~1mm / ~1mm AG / ~3mm AG
	Options	CC
	Qty / MUL	05 / 10
	Type	Standard / Special order
DISPLAY	LCD Typ brightness NITs	400+ / 500+
	Color depth (bit)	24 / 16
	Resolution	480x272 / 800x480 / 1024x600
	LCD view type	MVA / IPS Landscape
	LCD size (Inches)	4,3 / 7
	LCD and operating Temp (C)	minus 20 to +70

SIMx21 Datasheet

TOUCH SCREEN	Touch	Resistive 4-wire / External RTP4 / Capacitive
	Life	30K
	Ambient Light Sensor	N/A
ELECTRICAL	Vin DC (V)	4,5 to 5,25 / 6,0 to 35,0
	User LED	N/A
SYSTEM	MCU Family	STM32H7
	MCU Core (MHz)	480
	MCU Core type	ARM Cortex M7
	MCU Core count	1
	MCU Core flash (kB)	128
	MCU Core RAM (kB)	1024
	SPI NOR Flash (MB)	4 / 8 / 16
	SPI NAND Flash (MB)	128 / N/A
	e.MMC (GB)	N/A
	SDCard Socket	N/A
	RAM Size (MB)	16 / 32
	RAM Type	SDRAM
	RAM Speed (MHz)	100 / 133
	Battery Backed RTCC	Y
USB PORTS	USB Hosts Ports	1 / N/A
	USB Hosts Connectors	1 / N/A
	USB Host Speed (Mbps)	12 / N/A
	USB Device Ports	2 / 1
	USB Device Connector	1
	USB Device Speed (Mbps)	12
I/O PORTS	UART	1
	RS485 Transceiver	1 / N/A
	CAN channels	1 / N/A
	CAN Tranceiver	1 / N/A
	LIN Channels	N/A
	I2S	1 / N/A
	I2C	N/A
	Ethernet Channels	N/A
	Ethernet RJ45	N/A
	WiFi	1 / N/A
	BT	N/A
	802.15.4	N/A
	RGB LED Drivers	N/A
Audio Output	Piezo Sounder / EM Sounder / I2S	
GUI Development BSP		TouchGFX STM32CubeMX



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touch in our everyday lives.**

For more information, speak with
a specialist at e₂ip technologies.

We're always looking forward to
hearing from you!

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