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Preliminary Datasheet for HMI

Features

XMC070WV01AC-THL

The is equipped with a 32-bit dual-core high-efficiency, low-power processor

- 1. AI accelerate support & Equipped with Rich Set of I/O Peripherals
- 2. Mature Software Support with GUI Editor platform, developers can build applications anew or migrate their own applications
- 3. Various Embedded systems and Applications support

Specifications

Specificati		
CPU	-One core at 240 MHz: 613.86 CoreMark; 2.56 CoreMark/MHz -Two cores at 240 MHz: 1181.60 CoreMark; 4.92 CoreMark/MHz	
Memory	384 KB ROM 512 KB SRAM 8 MB PSRAM 16M SPI_FLASH	
WIFI	 IEEE 802.11b/g/n-compliant Supports 20 MHz and 40 MHz bandwidth in 2.4 GHz band 	
Bluetooth	 Bluetooth LE: Bluetooth 5, Bluetooth mesh High power mode (20 dBm) Speed: 125 Kbps, 500 Kbps, 1 Mbps, 2 Mbps 	
USB	1 Group	
GPIO/UART/IIC	40Pin (Pitch 2.54mm/2.0mm)	
CANBUS	1 Group	
RS485	1 Group	
UART/RS232	1 Group	
DISPLAY Input	TTL/RGB Mode	
DISPLAY	7.0"800RGB*480 High Brightness	
TOUCH TYPE	Capacitive Touch/Resistive touch	



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Applications

With low power consumption ,ESP32 is an ideal choice for IoT devices in the following areas Smart Home/IndustrialAutomation HealthCare Consumer/Electronics/Smart Agriculture/POS machines/Service robot/Audio Devices/GenericLow-power IoT Sensor Hubs GenericLow-power IoT Data Loggers Cameras for Video Streaming/Speech Recognition/ImageRecognition/SDIO Wi-Fi+Bluetooth Networking Card/TouchandProximitySensing





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J1, J2: GPIO/IIC

J1,02. G1 10/110				
PIN ASSIGNMENT				
1	5.0V	2	5.0V	
3	3.3V_OUT	4	3.3V_OUT	
5	GND	6	GND	
7	GND	8	GND	
9	NC	10	NC	
11	EX_P0	12	EX_P1	
13	EX_P2	14	EX_P3	
15	EX_P4	16	EX_P5	
17	EX_P6	18	EX_P7	
19	NC	20	NC	
21	NC	22	NC	
23	ESP_20	24	ESP_19	
25	ESP_41	26	ESP_40	
27	ESP_04	28	ESP_42	
29	ESP_01	30	ESP_02	
31	IIC-SCL	32	IIC-SDA	
33	GND	34	GND	
35	GND	36	GND	
37	3.3V_OUT	38	3.3V_OUT	
39	5.0V	40	5.0V	

J4A: UART, CANBUS

PIN	ASSIGNMENT
1	VCC
2	UART_RXD
3	UART_TXD
4	EN
5	воот
6	GND
7	CAN-
8	CAN+

J3: USB 1/0

NO.	SYMBOL
1	+5.0V
2	DM
3	DP
4	GND

J4B: UART, CANBUS

PIN	ASSIGNMENT
1	VCC
2	RS485A
3	RS485B
4	RS232_RXD
5	RS232_TXD
6	GND

