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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











FT1A Series Smart AXIS - 48 I/O

Key Features

- Available in 100-240 VAC and 24 VDC power
- Available with/without embedded LCD
- USB Mini-B Programming Port
- Embedded 8-pt analog inputs (0-10VDC, 10-bit, DC power)
- Integrated 4 x 100KHz high-speed counters
- Embedded Ethernet port
- Supports Modbus TCP and RTU
- SD Memory card for data logging and program storage
- Optional RS232C/RS485 adapter
- 100KHz high-speed outputs



General Specifications

Part Numbers	FT1A-H48KA, H48SA	FT1A-B48KA, B48SA	FT1A-H48KC, H48SC	FT1A-B48KC, B48SC	
Appearance	**	1	**		
LCD Screen	Yes	N/A	Yes	N/A	
Operating Temperature		0 to +55°C (operating	ambient temperature)		
Storage Temperature		−25 to +70°C	(no freezing)		
Rated Power Voltage	24V	DC	100 to 240V AC		
Allowable Voltage Range	20.4 to 28.8V DC (Including ripple voltage)		85 to 264V AC		
Rated Power Frequency	-		50/60Hz (47 to 63Hz)		
Maximum Power Consumption	6.0W		43VA		
Weight	Approx. 380g		Approx. 540g		



Function Specifications

Part Numbers		FT1A-H48KA, H48SA, B48KA, B48SA	FT1A-H48KC, H48SC, B48KC, B48SC	
Program Capacity Note 1		47,400 bytes (11,850 steps)		
	Points	30		
	Digital Input (Terminal No.)	22 (I0 to I7, I10 to I17, I20 to I25)	30 (I0 to I7, I10 to I17, I20 to I27, I30 to I35)	
Input	Shared Analog Input (Terminal No.)	8 (I26, I27, I30 to I35)	-	
	Output Points	18		
	10A Relay Output (Terminal No.)	-		
	2A Relay Output (Terminal No.)	-		
	Transistor Output (Terminal No.)	18 (Q0 to Q7, Q10 to Q17, Q20, Q21)		
User Program Storage		Flash ROM (10,000 rewriting life)		
Backup Function	RAM	Backup data: Internal relay, shift register, counter current value, data register Note 2, clock data (year, month, and day)		
	Backup Duration	Approx. 30 days (typical) at 25°C after backup battery fully charged		
	Battery	Lithium		
	Charging Time	Approx. 15 hours for charging from 0% to 90% of full charge		
	Battery Life	5 years		
	Replaceability	Not possible		
Clock Function Note 3		Clock accuracy: ±30 sec/month (typical) at 25°C		
Control System		Stored prog	gram system	

Specifications con't

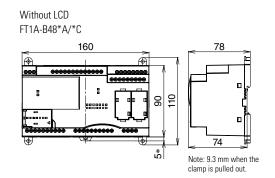
Basic Instructions Advanced Instructions Advanced Instructions DC: 125, AC: 111			
Advanced Instructions Basic Instruction END Processing Time END Processing END Proce			
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Counting Range 0 to 4,294,967,295 (32 bit) Operation Mode Rotary encoder mode and adding counter mode	3)		
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Pulse Output (Maximum frequency: 100kHz) Points 2 (Q14, Q15)			
Pulse Output (Maximum frequency: 5kHz) Points 2 (Q16, Q17)			
Points (Terminal No.) 8 (I26, I27, I30 to I35) –			
Analog Voltage Input			
Digital Resolution 0 to 1000			
Points 1			
USB Port USB Standard USB 2.0			
Connector Mini-B type			
Expansion Communication Ports 2	2		
Ethernet Port 1	1		
Memory Cartridge Connectors 1	1		
SD Memory Card Slots 1	1		

- 1. Step is equivalent to 4 bytes.
- 2. Among data registers D0 to D1999, only D0 to D999 are backed up. 3. Set the calendar/clock using the clock function in WindLDR.

Dimensions (mm)

With LCD FT1A-H48*A/*C Note: 9.3 mm when the

clamp is pulled out.



Mounting Hole Layout



