



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!



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**New
Generation
PLC**



FT1A Series Smart **AXIS** - 24 I/O

Key Features

- Available in 100-240 VAC and 24 VDC power
- Available with/without embedded LCD
- 10 Amp Relay contacts
- USB Mini-B Programming Port
- Embedded 4-pt analog inputs (0-10VDC, 10-bit, DC power)
- Integrated 4 x 100KHz high-speed counter
- Embedded Ethernet port
- Supports Modbus TCP and RTU
- Optional RS232C/RS485 adapter



General Specifications

Part Numbers	FT1A-H24RA	FT1A-B24RA	FT1A-H24RC	FT1A-B24RC
Appearance				
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	4.8W		41VA	
Weight	Approx. 310g		Approx. 400g	



Function Specifications

Part Numbers	FT1A-H24RA, B24RA	FT1A-H24RC, B24RC	
Program Capacity ^{Note 1}	47,400 bytes (11,850 steps)		
Input	Points	16	
	Digital Input (Terminal No.)	12 (I0 to I7, I10 to I13)	
	Shared Analog Input (Terminal No.)	4 (I14 to I17)	
	Output Points	8	
	10A Relay Output (Terminal No.)	4 (Q0 to Q3)	
	2A Relay Output (Terminal No.)	4 (Q4 to Q7)	
Backup Function	Transistor Output (Terminal No.)	-	
	User Program Storage	Flash ROM (10,000 rewriting life)	
	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 charge	
	Battery	Lithium	
	Charging Time	Approx. 15 hours for charging from 0% to 90% of full charge	
Clock Function ^{Note 3}	Battery Life	5 years	
	Replaceability	Not possible	
Control System	Stored program system		

Specifications con't on next page

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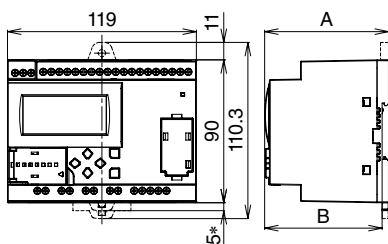
Part Numbers		FT1A-H24RA, B24RA	FT1A-H24RC, B24RC
Instruction Words	Basic Instructions	42	
	Advanced Instructions	107	
Processing Time	Basic Instruction	0.95ms (1000 steps)	
	END Processing	640μs	
Internal Relay		1024	
Shift Register		128	
Data Register		2,000	
Counter (adding, reversible)		200	
Timer (1-sec, 100ms, 10ms, 1ms)		200	
Input Filter		Without filter, 3 to 15ms (selectable in increments of 1ms)	
Catch Input/Interrupt Input	Input Points	6	
Self-diagnostic Function		Keep data, Power failure, Clock error, Watchdog timer, Timer/counter preset value change error, User program syntax, User program execution, System error, Memory cartridge transfer error	
High-speed Counter	Points	Total 6 points	–
	Maximum Counter Frequency	Single/two-phase selectable: 100kHz (2 points) , Single-phase: 100kHz (4 points)	
	Counting Range	0 to 4,294,967,295 (32 bit)	
	Operation Mode	Rotary encoder mode and adding counter mode	
Pulse Output (Maximum frequency: 100kHz)	Points	–	
Pulse Output (Maximum frequency: 5kHz)	Points	–	
Analog Voltage Input	Points (Terminal No.)	4 (I14 to I17)	–
	Input voltage Range	0 to 10V DC	
	Digital Resolution	0 to 1000	
USB Port	Points	1	
	USB Standard	USB 2.0	
	Connector	Mini-B type	
Expansion Communication Ports		1	
Ethernet Port		1	
Memory Cartridge Connectors		1	
SD Memory Card Slots		–	

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)

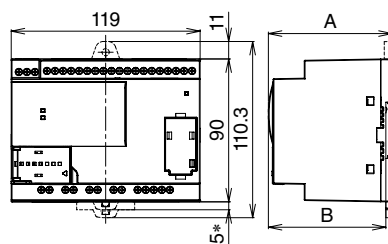
With LCD

FT1A-H24*A/*C



Without LCD

FT1A-B24*A/*C



Dimension Table

	A	B
FT1A-H24RA	60	56
FT1A-B24RA	60	56
FT1A-H24RC	78	74
FT1A-B24RC	78	74

Mounting Hole Layout

