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## FPO CPU



Type	FPO-C10RS-A	FPO-C14RS-A FPO-C14CRS-A	FPO-C16T-A FPO-C16CT-A FPO-C16P-A FPO-C16CP-A	FPO-C32T-A FPO-C32CT-A FPO-C32P-A FPO-C32CP-A	FPO-T32CT-A FPO-T32CP-A
<b>Input (24Vdc)</b>	6	8	8		16
<b>Output</b>	4	6	8		16
<b>Output type</b>		Relay 2A/pt Max 5A/common		T: Tr. sink 0.1A/pt, P: Tr. source 0.1A/pt Max 1.6A/common	
<b>Output common</b>	4/com	4/com, 1/com, 1/com	8/com		16/com
<b>Execution time</b>		0.9us	0.9us		0.9us
<b>Instructions</b>		280	280		280
<b>Prog. mem. type</b>		EEPROM	EEPROM		Flash ROM
<b>Program memory</b>		2.7KW	2.7KW	5KW	<b>10KW</b>
<b>Data memory</b>		1.6KW	1.6KW	6KW	<b>16KW</b>
<b>Retentive data</b>		8 (more with P13 instruction)	8 (more w/P13)	32 (more w/P13)	<b>16000</b>
<b>Timer/Counter</b>			144		
<b>Bit memory</b>			1088		
<b>Dimension (w, h, d)</b>		25 x 90 x 70mm	25 x 90 x 70mm		30 x 90 x 70mm
<b>High Speed Counter</b>		Single phase: 4ch, total 10KHz			

	X0(ch.0), X1(ch.1), X2(ch.2), X3(ch.3) (X4 and X5 can be hardware reset)
	A/B phase: 2ch, total 2KHz
	X0 - X1(ch.0), X2-X3(ch.2) (X4 and X5 can be hardware reset)
	Counter range: -8,388,608 to +8,288,607 (each)
<b>Pulse output</b>	2 points (Y0, Y1), Total 120KHz (Max 100Khz on one axis) Incremental control and Absolute control Automatic acceleration and deceleration Home function, Deviation counter clear signal for servo motor control Automatic direction output (Y2, Y3) <i>*Transistor output types only</i>
<b>Interrupt</b>	6 input interrupt (X0, X1 50us) (X2,3,4,5 100us) Constant time interrupt (0.5ms to 30sec)
<b>PID</b>	PID algorithm (with auto tuning) I-PD algorithm (with auto tuning) 10ms cycle to 10s cycle 16 loops
<b>Prog port</b>	MEWTOCOL Default 9600bps, software configurable to 19600bps Modem communication support (Slave mode only) CNET support (up to 32 station) T32CT & T32CP (up to 99 stations)
<b>Secondary port</b>	<i>Available only with "C" type.</i> MEWTOCOL, ASCII mode, Binary mode software selectable 300, 600, 1200, 2400, 4800, 9600, 19600bps Modem communication support (Slave mode and dial out)
<b>Floating point</b>	Trigonometric, log, root, and more instructions
<b>Others</b>	Step ladder : 128 steps Subroutine: 32 subroutine Jumps/Loops: 32 labels Master Control Relay: Available Index: 2 pointers (IX, IY)
<b>Battery Back up</b>	N/A N/A N/A <b>30 days without recharging</b>
<b>Calendar time clock</b>	N/A N/A N/A <b>Yes</b>

### Input/Output Specification

Type	FPO-C10RS-A	FPO-C14RS-A FPO-C14CRS-A	FPO-C16T-A FPO-C16CT-A FPO-C16P-A FPO-C16CP-A	FPO-C32T-A FPO-C32CT-A FPO-C32P-A FPO-C32CP-A	FPO-T32CT-A FPO-T32CP-A
<b>Power range</b>			19.6Vdc - 26.4Vdc		
<b>Power Current</b>		0.3A	0.3A		0.4A
<b>Input range</b>			19.6Vdc - 26.4Vdc		
<b>Input time</b>			X0- X1 (50us) X2-X5 (100us)		

<b>Output time</b>	10ms (Relay)	Others 2ms	Y0, Y1 50us Others 1ms
<b>Connection</b>	Phoenix removable screw terminals	MIL 10 pin x 2	MIL 10 pin x 4

### General Specification

<b>Type</b>	<b>FPO-C10RS-A</b>	<b>FPO-C14RS-A</b> <b>FPO-C14CRS-A</b>	<b>FPO-C16T-A</b> <b>FPO-C16CT-A</b> <b>FPO-C16P-A</b> <b>FPO-C16CP-A</b>	<b>FPO-C32T-A</b> <b>FPO-C32CT-A</b> <b>FPO-C32P-A</b> <b>FPO-C32CP-A</b>	<b>FPO-T32CT-A</b> <b>FPO-T32CP-A</b>
<b>Operating temp</b>	0-55 degree C				
<b>Operating humidity</b>	0-85%				
<b>Ambient temp</b>	0-55 degree C				
<b>Vibration</b>	0-55Hz, 0.75mm oscillation X, Y, Z direction for 1 minute each				
<b>Shock</b>	1G for X, Y, Z each direction				
<b>Compliant</b>	UL508: File #: cUL CE				

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