Panasonic

AFP7CPS31ES | FP7



※Photo may vary from actual product.

Product Number	AFP7CPS31ES
Part Number	AFP7CPS31ES
Product	FP7 CPU units
Details	Security enhanced type
Product name	FP7

Spec Detail

As of May 30, 2021

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	AFP7CPS31ES
Part Number	AFP7CPS31ES
[[Control specifications]]Memory capacity:Memory selection pattern1	Program (steps): 121,500 Data register (Note 1): 131,072 Number of max. program block (PB): 243 (Note) The factory default setting is pattern 1. (Note 1) For data register (DT), data up to 262,144 words can be backed up.
[[Control specifications]]Memory capacity:Memory selection pattern2	Program (steps): 96,000 Data register (Note): 262,144 Number of max. program block (PB): 192 (Note) For data register (DT), data up to 262,144 words can be backed up.
[[Control specifications]]Memory capacity:Memory selection pattern3	Program (steps): 64,000 Data register (Note): 425,984 Number of max. program block (PB): 128 (Note) For data register (DT), data up to 262,144 words can be backed up.
[[Control specifications]]Memory capacity:Memory selection pattern4	Program (steps): 32,000 Data register (Note): 589,824 Number of max. program block (PB): 64 (Note) For data register (DT), data up to 262,144 words can be backed up.
[[Control specifications]]Programming method	Relay symbol method
[[Control specifications]]Control method	Cyclic operation method
[[Control specifications]]Program memory	Built-in flash ROM (no backup battery required)
[[Control specifications]]Operation speed	Basic instruction: min. 11 ns/step
[[Control specifications]]External input (X)	8,192 points (Note) Hardware configuration governs the actually usable number of I/O points. When I/O points are not actually used, usable as internal relays.
[[Control specifications]]External output (Y)	8,192 points (Note) Hardware configuration governs the actually usable number of I/O points. When I/O points are not actually used, usable as internal relays.
[[Control specifications]]Internal relay (R)	32,768 points
[[Control specifications]]System relay (SR)	Indicate operation status of various relays is shown.
[[Control specifications]]Link relay (L)	16,384 points

AFP7CPS31ES | FP7 | Automation Controls | Industrial Devices | Panasonic [[Control specifications]]Timer (T) 4,096 points: Timer capable of counting (units: 10 micro s, 1 ms, 10 ms, 100 ms or 1 sec.) x 4,294,967,295 [[Control specifications]]Counter (C) 1,024 points, Counter capable of counting 1 to 4,294,967,295 [[Control specifications]]Link data 16.384 words register (LD) [[Control specifications]]System data Internal operation status of various registers is shown. register (SD) [[Control specifications]]Index register 15 long words / With switching function (I0 to IE) [[Control specifications]]Master Unlimited control relay (MCR) [[Control specifications]]Number of labels (LOOP) Max. 65,535 points for each program block (PB) [[Control specifications]]Differential Unlimited [[Control specifications]]Number of Unlimited step ladders [[Control specifications]]Number of Max. 65,535 points for each program block (PB) [[Control specifications]]Number of 1 periodical interrupt program interrupt program [[Control specifications]]SD memory SDHC memory cards of up to 32 GB are usable. card function [[Control specifications]]Constant Available (0 to 125 ms) Year (last two digits), month, day, hours (24-hour display) minutes, seconds, day of week [[Control specifications]]Clock / (Note)Precision of calendar; At 0 °C +32 °F, 95 sec. or less error per calendar month, at +25 °C +77 °F, 15 sec. or less error per month, at +55 °C +131 °F, 130 sec. or less error per month [[Control specifications]]Battery life 3.3 years or more (when no power is supplied) actual usage value: 20 (Value applies when no power is years approx. (at 25 degrees 77 degrees Fahrenheit) supplied at all.) [[Control specifications]]Safety Password / Restricted distribution / Read disable setting / Encryption function [[Control specifications]]PLC link Max. 16 units, link relays: 1,024 points, link registers: 128 words. (Data function transfer and remote programming are not supported) (Link area allocation (Serial communication / MEWNETis switchable between the first and the second half) [[Communication specifications for RS-232C, three-wire system, 1 channel COM port]]Interface (Note) SD, RD and SG terminals are isolated from internal circuits. [[Communication specifications for 15 m 49.213 ft COM port]]Transmission distance [[Communication specifications for 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 COM port]]Transmission speed bits/sec [[Communication specifications for Half-duplex system COM port]]Communication method [[Communication specifications for Start-stop synchronization system COM port]]Synchronous method Stop bit: 1 bit / 2 bits Parity: none / odd / even Data length: 7 bits / 8 bits [[Communication specifications for COM port]]Transmission format Start code: with STX / without STX End code: CR / CR + LF / none / ETX [[Communication specifications for Transmit from bit 0 in character units. COM port]]Data transmission order

[[Dedicated power supply output port For 5 V DC type GT series Programmable Display specifications for GT series (Note) 5 V and 24 V DC types are not usable at the same time. programmable display]]Terminal:5V

General-purpose communication, Computer link and MODBUS-RTU

[[Communication specifications for

COM port]]Connection

[[Dedicated power supply output port specifications for GT series programmable display]]Terminal:24V For 24 V DC type GT series Programmable Display (Note 1) 5 V and 24 V DC types are not usable at the same time. (Note 2) Use 21.6 to 26.4 V DC to power the CPU unit. Please check the "GT Series Hardware Manual" for grounding of the GT series programmable display.

[[LAN communication port specifications]]Communication interface

Ethernet 100BASE-TX / 10BASE-TX

[[LAN communication port specifications]]Communication speed

100 Mbps, 10 Mbps auto negotiation function

[[LAN communication port specifications]]Total cable length

100 m 328 ft (500 m 1,640 ft when a repeater is used)

[[LAN communication port specifications]]Number of nodes

Max. 254 units

[[LAN communication port specifications]]Number of simultaneous connections

Max. 220 connections (user connection: 216, system connection: 4)

[[LAN communication port specifications]]Communication protocol (Communication layer)

TCP / IP, UDP

[[LAN communication port specifications]]DNS

Supports name servers

[[LAN communication port specifications]]DHCP / DHCPV6

Automatic IP address acquisition

[[LAN communication port specifications]]FTP server / Client (SSL compatible)

Server function, file transfer, number of user: 3 Client function, data and file transfer

[[LAN communication port specifications]]HTTP server / Client (SSL compatible) Server function, system web, Customer web (8 MB), number of concurrent

session: 16

Client function, data transfer

[[LAN communication port specifications]]SMTP client (SSL compatible)

client (SSL Client function, mail transfer

[[LAN communication port specifications]]SNTP

Time adjustment function

[[LAN communication port specifications]]General-purpose communication

16 kB / 1 connection (user connection: 1 to 16)

[[LAN communication port specifications]]Dedicated communication

Slave communication (MEWTOCOL-COM, MEWTOCOL7-COM, MEWTOCOL-DAT, MODBUS-TCP, MC protocol (Note))
Master communication (MEWTOCOL-COM, MEWTOCOL-DAT, MODBUS-TCP, MC protocol (Note))
(Note): MC protocol is a short form denoting MELSEC communication

(Note): MC protocol is a short form denoting MELSEC communication protocol; MELSEC is a registered trademark of Mitsubishi Electric Corporation. QnA compatible 3E frame, only binary (bulk writing and bulk reading) use is available.

[[Common general specifications]]Ambient temperature

0 to +55 °C +32 to +131 °F, Storage: -40 to +70 °C -40 to +158 °F

[[Common general specifications]]Ambient humidity

10 to 95 % RH (at +25 $^{\circ}$ C +77 $^{\circ}$ F, no condensation), Storage: 10 to 95 % RH (at +25 $^{\circ}$ C +77 $^{\circ}$ F, no condensation)

[[Common general specifications]]Breakdown voltage

500 V AC for 1 minute

[[Common general specifications]]Insulation resistance

100 MOhm or more (at 500 V DC)

[[Common general specifications]]Vibration resistance

5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 1 sweep/min. (IEC 61131-2) ; 8.4 to 150 Hz, constant acceleration of 9.8 m/s 2 , 1 sweep/min. (IEC 61131-2), 10 times each in X, Y, and Z directions

[[Common general specifications]]Shock resistance

147 $\mbox{m/s}^2$ or more , 3 times each in X, Y, and Z directions (IEC61131-2)

[[Common general specifications]]Noise immunity

1,000 V [p-p] with pulse width 50 ns and 1 micro s (using a noise simulator)

[[Common general specifications]]Operating condition

Free from corrosive gasses and excessive dust

[[Individual general specifications]]Rated voltage range

erai Rated voltage range 20.4 to 28.8 V DC [[Individual general specifications]]Current consumption

200 mA or less

[[Individual general specifications]]Net weight

220 g approx. (with terminal block and end unit)

Accessories

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Product Number	AFP2801	Product Number	AFP2802	Product Number	AFP7AD4H
Part Number	AFP2801	Part Number	AFP2802	Part Number	AFP7AD4H
Product name	Discrete-wire connector set	Product name	Flat cable connector set	Product	FP7 Analog Input and Output units
				Details	FP7 Analog Input unit (High-speed and high-accuracy type)
				Product name	FP7 Analog Input and Output units
No image					
Product Number	AFP7AD8	Product Number	AFP7CCET1	Product Number	AFP7CCM1
Part Number	AFP7AD8	Part Number	AFP7CCET1	Part Number	AFP7CCM1
Product name	FP7 Analog Input and Output units	Product	FP7 Add-on cassettes (communication	Product	FP7 Add-on Cassettes
		Product	cassettes)	Details	Communication Cassettes
		name	cassettes	Product name	FP7 Add-on cassettes
Product Number	AFP7CCM2	Product Number	AFP7CCS1	Product Number	AFP7CCS1M1
Part Number	AFP7CCM2	Part Number	AFP7CCS1	Part Number	AFP7CCS1M1
Product	FP7 Add-on Cassettes	Product	FP7 Add-on Cassettes	Product	FP7 Add-on Cassettes
Details	Communication Cassettes	Details	Communication Cassettes	Details	Communication Cassettes
Product name	FP7 Add-on cassettes	Product name	FP7 Add-on cassettes	Product name	FP7 Add-on cassettes
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Product Number	AFP7CCS2	Product Number	AFP7DA4H	Product Number	AFP7END
Part Number	AFP7CCS2	Part Number	AFP7DA4H	Part Number	AFP7END
Product	FP7 Add-on Cassettes	Product	FP7 Analog Input and Output units	Product name	FP7 End unit
Details	Communication Cassettes	Details	FP7 Analog Output unit (High- speed and high-		
Product name	FP7 Add-on cassettes	Product	accuracy type) FP7 Analog Input		
		name	and Output units		

Product FP7 Multi-wire link		AFP7CPS3	31ES FP7 A	automation Controls	Industrial De	evices Panasonic
Number	No image		No image			
Product		AFP7EXPM		AFP7EXPS		AFP7FCA21
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Product Number AFPTAGDA Product Cassettes) Product (function Cass					Product	cassettes (function
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Product (function cassettes)		AFP7FCAD2		AFP7FCTC2		AFP7HSC2T
Product cassettes (function cassettes)	Part Number	AFP7FCAD2	Part Number	AFP7FCTC2	Part Number	AFP7HSC2T
Product name (function cassettes) Product Part Number AFP7HSC4T Part Number AFP7MC16EC Part Number AFP7MG32EC Product FP7 High-speed Counter Units Product FP7 High-speed Counter Units Product FP7 High-speed Counter Units Product FP7 Houton control Unit Product FP7 Motion control Unit Product FP7 High-speed Counter Units Product FP7 Houton control Unit Product FP7 Motion control Unit Product FP7 Houton control Unit PP7 Motion control Unit Product FP7 Motion control Unit PP7 Motion control Unit Product FP7 Motion AFP7MW Part Number AFP7MY32DWD Product FP7 Motion name FP7 Motion name FP7 Motion control Unit Product FP7 Motion FP7 Motion name FP7 Polise output units name units	Product	cassettes	Product	cassettes	Product	
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Product Control Unit Details EtherCAT type name Unit Product name FP7 Multi-wire link unit Product name Unit Product Number AFP7NSC Product Number AFP7PG02L Part Number AFP7MXY32DWDH Part Number AFP7NSC Part Number AFP7MXY32DWDH Product Communication Unit Product FP7 Multi Input/Output Unit Product Product Number AFP7 Serial Communication Unit Product Product name FP7 Pulse output Units Product Input/Output Unit Product name FP7 Pulse output Units	Part Number	AFP7MC64EC	Part Number	AFP7MW	Part Number	AFP7MXY32DWD
Details EtherCAT type name unit Product name Unit Product name Unit Input/output Unit Product name Product FP7 Motion name Control unit Product Number AFP7NSC Product Number AFP7PG02L Product Number AFP7MXY32DWDH Part Number AFP7NSC Part Number AFP7PG02L Part Number AFP7MXY32DWDH Product Communication Unit Product Input/Output Unit Input/Output Unit Product Product name FP7 Pulse output Units Product Product Number AFP7 Serial Communication Unit Product Input/Output Unit	Product				Product	FP7 Multi Input/Output Units
Product name Discontinued Product Number AFP7MXY32DWDH Part Number AFP7MXY32DWDH Part Number AFP7MXY32DWDH Product Number AFP7MXY32DWDH Product Number FP7 Serial communication unit Product Input/Output Unit Product Product Number Product Product Number FP7 Serial communication unit Product Number FP7 Pulse output units Product Number FP7 Pulse output units Product Number FP7 Pulse output units	Details	EtherCAT type				Multi input/output unit
Product Number AFP7MXY32DWDH Part Number AFP7NSC Part Number AFP7PG02L Part Number AFP7MXY32DWDH Part Number AFP7NSC Part Number AFP7PG02L Part Number AFP7MXY32DWDH Product Communication unit Product Input/Output Unit Input/Output Unit Details Positioning type Product name Product communication unit Product Input/Output Unit Input/						
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Number AFP7MXY32DWDH Part Number AFP7NSC Part Number AFP7PG02L Part Number AFP7MXY32DWDH Product FP7 Multi Input/Output Unit Details Positioning type Product name Part Number AFP7NSC Part Number AFP7PG02L FP7 Serial communication unit FP7 Serial communication unit FP7 Serial communication units	Dradust			AFP7NSC		AFP7PG02L
Product FP7 Multi unit Product communication unit Product units Product Input/Output Unit Product name Product units Product Product name Product units Product name Product units Product name units		AFP7MXY32DWDH	Part Number	AFP7NSC	Part Number	AFP7PG02L
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Product Number	AFP7PG02T	Product Number	AFP7PG04L	Product Number	AFP7PG04T
Part Number	AFP7PG02T	Part Number	AFP7PG04L	Part Number	AFP7PG04T
Product	FP7 Pulse output units	Product	FP7 Pulse output units	Product	FP7 Pulse output units
Product name	FP7 Pulse output units	Product name	FP7 Pulse output units	Product name	FP7 Pulse output units
Product Number	AFP7PHLSM	Product Number	AFP7PP02L	Product Number	AFP7PP02T
Part Number	AFP7PHLSM	Part Number	AFP7PP02L	Part Number	AFP7PP02T
Product	FP7 PHLS (Remote I/O) unit	Product	FP7 Positioning units	Product	FP7 Positioning units
Details	PHLS Master unit	Product name	FP7 Positioning units	Product name	FP7 Positioning units
Product name	FP7 PHLS (Remote I/O) unit				
Product Number	AFP7PP04L	Product Number	AFP7PP04T	Product Number	AFP7PSA1
Part Number	AFP7PP04L	Part Number	AFP7PP04T	Part Number	AFP7PSA1
Product	FP7 Positioning units	Product	FP7 Positioning units	Product	FP7 Power supply units
Product name	FP7 Positioning units	Product name	FP7 Positioning units	Product name	FP7 Power supply units
Section 1					
Product Number	AFP7PSA2	Product Number	AFP7RTD8	Product Number	AFP7TC8
Part Number	AFP7PSA2	Part Number	AFP7RTD8	Part Number	AFP7TC8
Product	FP7 Power supply units	Product	FP7 Temperature input units	Product	FP7 Temperature input units
Product name	FP7 Power supply units	Product name	FP7 Temperature input units	Product name	FP7 Temperature input units
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Product Number	AFP7X16DW	Product Number	AFP7X32D2	Product Number	AFP7X64D2
Part Number	AFP7X16DW	Part Number	AFP7X32D2	Part Number	AFP7X64D2
Product	FP7 Input and Output Units	Product	FP7 Input and Output Units	Product	FP7 Input and Output Units
Details	Input units	Details	Input units	Details	Input units
Product name	FP7 Input and Output units	Product name	FP7 Input and Output units	Product name	FP7 Input and Output units
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Number	71170100	Number	utomation Controls	Number	
Part Number	AFP7XY64D2P	Part Number	AFP7XY64D2T	Part Number	AFP7Y16P
Product	FP7 Input and Output Units	Product	FP7 Input and Output Units	Product	FP7 Input and Output Units
Details	Input and Output units	Details	Input and Output units	Details	Output units
Product name	FP7 Input and Output units	Product name	FP7 Input and Output units	Product name	FP7 Input and Output units
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Product Number	AFP7Y16R	Product Number	AFP7Y16T	Product Number	AFP7Y32T
Part Number	AFP7Y16R	Part Number	AFP7Y16T	Part Number	AFP7Y32T
Product	FP7 Input and Output Units	Product	FP7 Input and Output Units	Product	FP7 Input and Output Units
Details	Output units	Details	Output units	Details	Output units
Product name	FP7 Input and Output units	Product name	FP7 Input and Output units	Product name	FP7 Input and Output units
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Product Number	AFP7Y64P	Product Number	AFP7Y64T	Product Number	AFP8503
Part Number	AFP7Y64P	Part Number	AFP7Y64T	Part Number	AFP8503
Product	FP7 Input and Output Units	Product	FP7 Input and Output Units	Product name	Motor Driver I/F Terminal II
Details	Output units	Details	Output units		
Product name	FP7 Input and Output units	Product name	FP7 Input and Output units		
No image		No image		No image	
Product Number	AFP8504	Product Number	AFP85100	Product Number	AFP85101
Part Number	AFP8504	Part Number	AFP85100	Part Number	AFP85101
Product name	Motor Driver I/F Terminal II	Product name	Connection cable for Posiotioning unit	Product name	Connection cable for Posiotioning unit
No image		No image		199933	
Product Number	AFP85151	Product Number	AFP85152	Product Number	AFPRP1X08D2
Part Number	AFP85151	Part Number	AFP85152	Part Number	AFPRP1X08D2
Product name	MINAS A4 series / A5 series	Product name	MINAS A4 series / A5 series	Product	FP7 PHLS (Remote I/O) unit
	Exclusive cable		Exclusive cable	Details	PHLS Slave units
				Product name	FP7 PHLS (Remote I/O) unit
		- HANS 133331		- WANTED STATES	
Product Number	AFPRP1X16D2	Product Number	AFPRP1XY16D2T	Product Number	AFPRP1Y16T
Part Number	AFPRP1X16D2	Part Number	AFPRP1XY16D2T	Part Number	AFPRP1Y16T
Product	FP7 PHLS	Product	FP7 PHLS	Product	FP7 PHLS

	AFP7CPS3	31ES FP7 A	automation Controls	Industrial De	evices Panasoni
Details	PHLS Slave units	Details	PHLS Slave units	Details	PHLS Slave units
Product name	FP7 PHLS (Remote I/O) unit	Product name	FP7 PHLS (Remote I/O) unit	Product name	FP7 PHLS (Remote I/O) unit
Product Number	AFPRP2X08D2E	Product Number	AFPRP2X16D2	Product Number	AFPRP2XY16D2T
Part Number	AFPRP2X08D2E	Part Number	AFPRP2X16D2	Part Number	AFPRP2XY16D2T
Product	FP7 PHLS (Remote I/O) unit	Product	FP7 PHLS (Remote I/O) unit	Product	FP7 PHLS (Remote I/O) unit
Details	PHLS Slave units	Details	PHLS Slave units	Details	PHLS Slave units
Product name	FP7 PHLS (Remote I/O) unit	Product name	FP7 PHLS (Remote I/O) unit	Product name	FP7 PHLS (Remote I/O) unit
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Product Number	AFPRP2Y04R	Product Number	AFPRP2Y16T	Product Number	AFPSGR7ENS
Part Number	AFPRP2Y04R	Part Number	AFPRP2Y16T	Part Number	AFPSGR7ENS
Product	FP7 PHLS (Remote I/O) unit	Product	FP7 PHLS (Remote I/O) unit	Product name	Control FPWIN GR7
Details	PHLS Slave units	Details	PHLS Slave units		
Product name	FP7 PHLS (Remote I/O) unit	Product name	FP7 PHLS (Remote I/O) unit		
No image		No image		No image	
Product Number	AFPSGR7JPS	Product Number	AFPSGR7KRS	Product Number	AFPSPR7AS
Part Number	AFPSGR7JPS	Part Number	AFPSGR7KRS	Part Number	AFPSPR7AS
Product name	Control FPWIN GR7	Product name	Control FPWIN GR7	Product name	Control FPWIN Pro7
No image		No image			
Product Number	AFPSWC	Product Number	AFPSWCKEY	Product Number	AXW7221FP
Part Number	AFPSWC	Part Number	AFPSWCKEY	Part Number	AXW7221FP
Product name	FP7	Product name	FP7	Product	Pressure contact for multi-wire
				Product name	Pressure contact for multi-wire
				No image	
Product Number	AXW7231FP	Product Number	AXY52000FP	Product Number	SL-VFP7
Part Number	AXW7231FP	Part Number	AXY52000FP	Part Number	SL-VFP7
Product	Pressure contact for multi-wire	Product	Pressure contact tool	Product name	Flexible Wire- saving System S- LINK V
	Pressure contact for multi-wire	Dataila	Multi-wire connector		
Product name	Tor main-wife	Details	pressure contact tool		

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