



AFP7MXY32DWD | Multi input/output unit



※Photo may vary from actual product.

Product Number	AFP7MXY32DWD
Part Number	AFP7MXY32DWD
Product	FP7 Multi Input/Output Units
Product name	Multi input/output unit

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	AFP7MXY32DWD
Part Number	AFP7MXY32DWD
[[Function specifications]]Basic input and output : Number of occupied I/O points	Input/Output: 64 points each (4 words)
[[Function specifications]]Basic input and output : Number of external I/O points	Input: 16 points, Output: 16 points
[[Function specifications]]Basic input and output : Input time constant setting	None, 0.5 μ s, 1 μ s, 2 μ s, 4 μ s, 8 μ s, 16 μ s, 32 μ s, 64 μ s, 96 μ s, 128 μ s, 256 μ s, 2 ms, 4 ms, 8 ms Setting possible in 2-point units
[[Function specifications]]Basic input and output : Output polarity setting	No output, N channel, P channel, Both channels (push pull output), Differential output Setting possible in 4-point units
[[Function specifications]]Interrupt : Number of points	8 points/unit (Max. of 8 units can be used with FP7 system.)
[[Function specifications]]Interrupt : Mode	Non-interrupt unit, Interrupt unit (Set using DIP switches)
[[Function specifications]]Interrupt : Interrupt condition setting	Terminal input, Comparison match
[[Function specifications]]Counter : Counter type	Ring counter Linear counter
[[Function specifications]]Counter : Input mode	Direction distinction, Individual input, Phase input
[[Function specifications]]Counter : Number of channels	4 channels (Note) : When using elapsed value hold function, number of channels will be limited.
[[Function specifications]]Counter : Counting range	Signed 32 bit (-2,147,483,648 to +2,174,483,647) Setting possible of upper and lower limits
[[Function specifications]]Counter : Max. counting speed	5 V input voltage: 500 kHz 12 V input voltage: 500 kHz (350 kHz with phase input) 24 V input voltage: 250 kHz (180 kHz with phase input) (Note) With 50 % duty input pulse.
[[Function specifications]]Counter : Min. input pulse width	0.5 μ s
[[Function specifications]]Counter : Comparison output setting	Max. 8 points Terminal input counter: 4 channels
[[Function specifications]]Counter : Others	Transfer multiplication function (x 1, x 2, x 4) Elapsed value offset / preset function Elapsed value hold function, setting of upper / lower count limits

	Input pulse frequency measurement Overflow / underflow detection
[[Function specifications]]Pulse output : Number of channels	4 channels
[[Function specifications]]Pulse output : Output mode	Direction distinction, Individual output, Phase output, Comparison match stop
[[Function specifications]]Pulse output : Output terminals : Pulse output function	2 terminals / channel (B11 to B18 terminals)
[[Function specifications]]Pulse output : Output terminals : PWM output function	1 terminal / channel (B11, B13, B15 and B17 terminals)
[[Function specifications]]Pulse output : Output frequency : Pulse output function	1 to 500 kHz (Settable by 1 Hz) (Note) : When push pull setting or output current is 0.1 A. Varies according to load.
[[Function specifications]]Pulse output : Output frequency : PWM output function	1 to 100 kHz (Settable by 1 Hz) (Note) : When push pull setting or output current is 0.1 A. Varies according to load.
[[Function specifications]]Pulse output : Duty ratio : Pulse output function	50 % approx. (Fixed)
[[Function specifications]]Pulse output : Duty ratio : PWM output function	0 to 100 % (Settable by 0.1%)
[[Function specifications]]Pulse output : Other functions	Pulse number measurement function (dedicated pulse counter 4 channels)
[[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 °C +77 °F, no condensation), Storage: 10 to 95 % RH (at +25 °C +77 °F, no condensation)
[[COMMON GENERAL SPECIFICATIONS]]Breakdown voltage	500 V AC for 1 minute
[[COMMON GENERAL SPECIFICATIONS]]Insulation resistance	100 MΩ 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 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 μs (using a noise simulator)
[[COMMON GENERAL SPECIFICATIONS]]Operating condition	Free from corrosive gasses and excessive dust
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Rated voltage range	-
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Current consumption	100 mA or less
[[INDIVIDUAL GENERAL SPECIFICATIONS]]Net weight	100 g approx.