

EM – M30: Multifunction Unit



OVERVIEW

The Multifunction Test Module provides massive resources for testing. These IO includes 16*analog output, 16*analog input, 32*digital output, 16*digital input

KEY FEATURES

- 16 Channel Analog Voltage Input
- 16 Channel Analog Voltage Output
- 16 Channel Digital Input
- 32 Channel Digital Output

USAGE EXAMPLES

- For any application needing a lot of Analog input and Analog output E.g. In EPS system, when it is needed to generate server high accuracy and fast changing torque control voltage.
- For any application needing to generate signal that changes with the input changes (ADC E.g. In EPS system, when it is needed to generate server high accuracy and fast changing torque control voltage.

DIMENSION

L*W = 126mm*114mm

OPERATING TEMPERATURE

0 °C ~ +65 °C

POWER REQUIREMENT

DC Power Supply:
24 VDC, 90m A

DETAILED SPECIFICATIONS

Analog Voltage Input	Val ue	Unit
Resolution	16 bits	
Input Range (Normal / Max)	±20	V
Precision	1	mV
Input Resistance	247	kΩ
Sampling Speed	Up to 5K (Depends on how many channel need to be sampled at the sample tim)	Sps (Samples/Second)

Analog Voltage Output	Val ue	Unit
Resolution	16 bits	
Output Range (Normal / Max)	±20	V
Precision	1	mV
Output Resistance	10	Ω

Digital Input	Val ue	Unit
Input Voltage Range	-0.7 ~ + 30	V
Input Voltage Threshold	2.5	V
Input Resistance	48	kΩ

Digital Input	Val ue	Unit
Maximum Pull-Up Voltage Applied	+5	V
Output Structure	Voltage Output	
Output Resistance	10	kΩ
Voltage Level	+5V/External Input (Hardware Switch Control)	

ENVIRONMENTAL

The EM - M30: Multifunction Unit is intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for more information about meeting these specifications.

Operating temperature

0 °C --+65°C

Storage temperature

-40°C--+85°C

Ingress protection (IP code)

None

Operating humidity

10-90% RH non condensing

Storage humidity

5-95% RH non condensing

SUPPORT AND SERVICE

Calibration

ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of the measurement hardware, ART logics offers basic or detailed recalibration service.

DIMENSION



Dimension:
L*W = 126mm*114mm



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