

www.art-logics.com support@art-logics.com



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.

DIMENSION

L*W = 126mm*114mm

KEY FEATURES

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

OPERATING TEMPERATURE

0 °C ~ +65 °C

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.

POWER REQUIREMENT

DC Power Supply: 24 VDC, 90m A

DETAILED SPECFICATIONS

| Analog Voltage Input | Val ue | Unit |
|--------------------------|---|-------------------------|
| Resolution | 16 bits | |
| Input Range (Normal / Ma | ex) ±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.

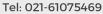
DIMENSION



Dimension: L*W = 126mm*114mm







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