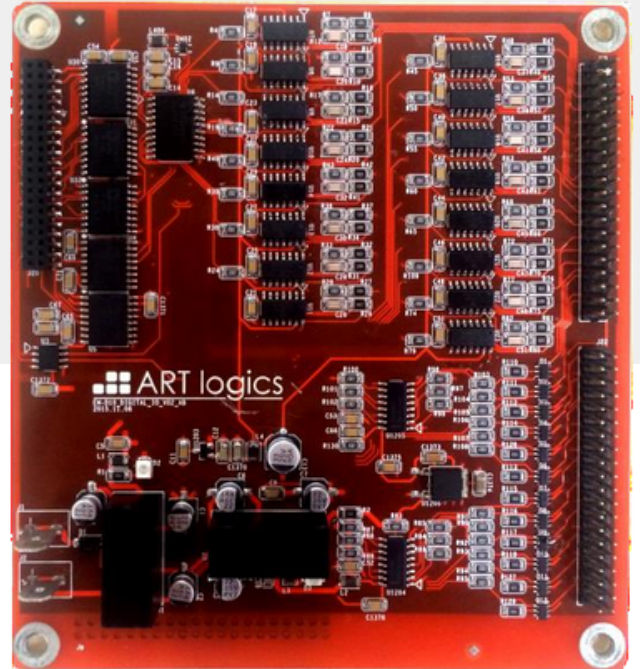


EM – D10: Digital Input Frequency Input Digital Output

OVERVIEW

The EM-D10 is a plug&play board of the TCU100 extension system. This extension module adds digital inputs and outputs capabilities to TCU100.

It contains 16 frequency inputs with range from 0.1Hz to 100KHz. 4 32bits counters High State, 4 32bits counters Low State A TVS diode must be added to all FIN channel A comparator with hysteresis is used to shape the input signal, +/- 40 Volts input range, 100kOhm input impedance.



DIMENSION

L*W = 126mm*114mm

KEY FEATURES

- 16 channels Digital Input
- 16 FI thresholds (same as TCU100)
- 12 channels Digital Output Push / Pull
- 2 DAC with 2 SPI outputs for each

POWER REQUIREMENT

DC Power Supply:
24VDC, 330 mA

DETAILED SPECIFICATIONS:

Digital Input	Value	Unit
Input Voltage Range	-0.7 ~ + 30	V
Input Voltage Threshold	-19/+19	V
Input Resistance	100K	Ω
Input Frequency Range	0 to 100K	Hz

Digital Output	Value	Unit
Maximum Pull-Up Voltage Applied	+ 30	V
Output Frequency Range	0 ~ 10K	Hz
Output Frequency rising time	12 (with 1k pull up resistor and 10V source)	μ s
Output Frequency falling time	10	μ s
Output Structure	Open-Drain	

SUPPORT AND SERVICE

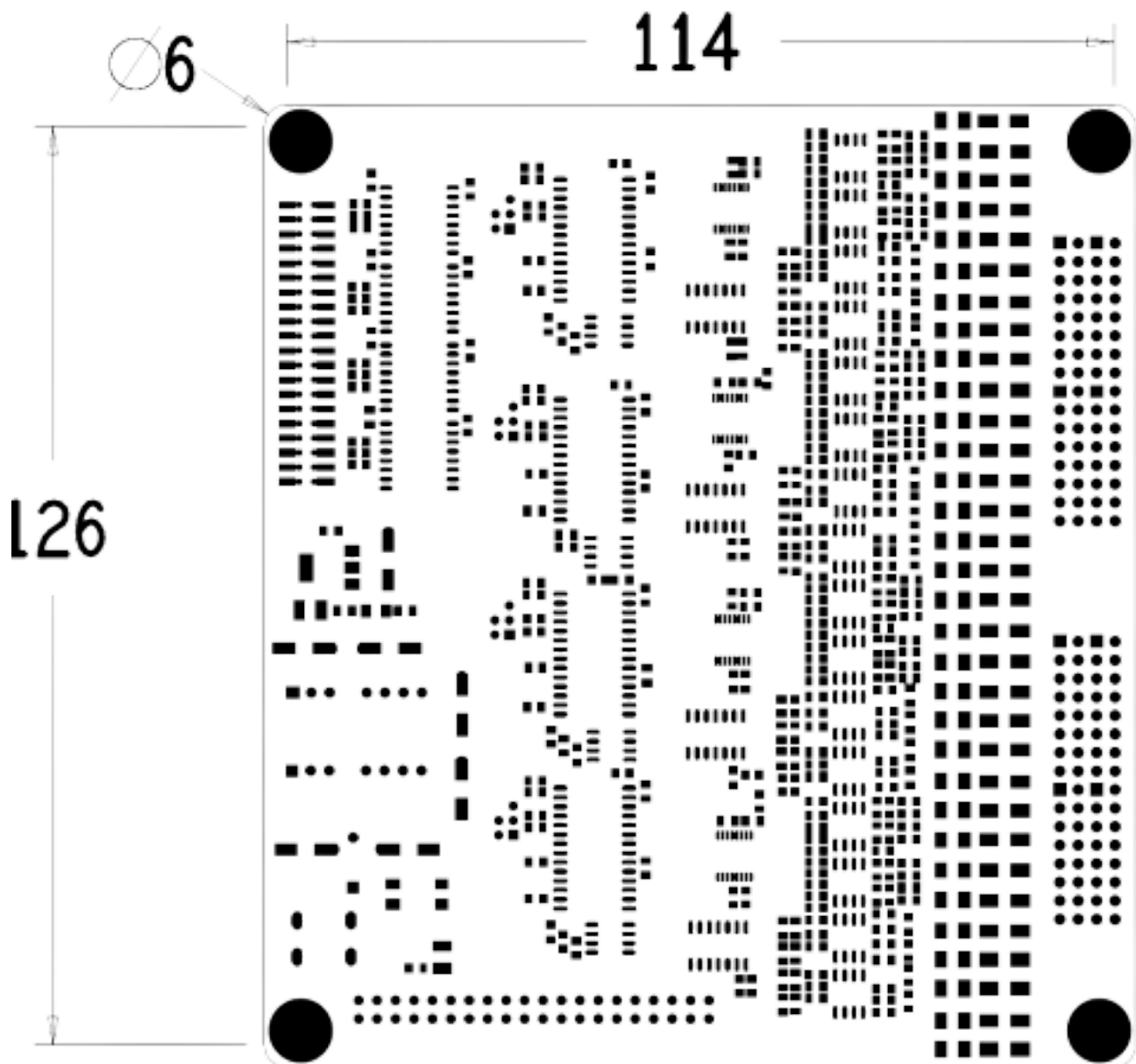
Calibration

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.

PHYSICAL

Dimension:

L*W = 126mm*114mm



ART Logics (Shanghai) Testing Equipment CO., Ltd
艾驰电子检测设备技术（上海）有限公司

Tel: 021-61075469
Room 105, No. 258, Chengjiaqiao Road, Shanghai, P.R. China

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