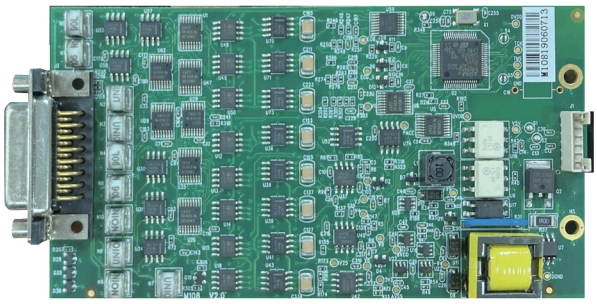
12 Leads ECG
Module MECG12

The MECG12 diagnostic ECG measurement module is a 12-lead ECG, which is used in the diagnosis and analysis of the patient's ECG.



Dimension： 130mm×70mm×13mm

Features

- With 12-lead ECG waveform display
- With unique ECG analysis function, verified by MIT database and CSE database
- Support 255 kinds of auxiliary diagnosis such as arrhythmia, conduction block, myocardial infarction, ventricular hypertrophy, etc.
- The filter mode can be switched freely

  Low-pass filter: 70Hz, 100Hz, 150Hz

  High-pass filter: 0.05Hz, 0.1Hz, 0.2Hz, 0.5Hz

  EMG filter: 25Hz, 35Hz, 45Hz

  AC filter: 50Hz, 60Hz, closed

  ECG calibration function: input 1mv standard voltage to record the waveform amplitude, accuracy ±5%
- Gain setting: adjust the amplitude of the ECG waveform
- Notch mode: 50Hz, 60Hz and close notch mode commands can be selected.
- Linkage detection: identify and judge the state of the lead
- Channel overload prompt
- Heart rate calculation: automatically switch the calculation channel according to the state
- Intelligent judgment pacing detection function
- Support ECG waveform characteristic interval measurement: including PR interval, QRS interval, QT interval, QTC, P axis, QRS electrical axis, T axis measurement, and RV5, SV1 amplitude measurement
- Support to provide printable diagnostic analysis results: including arrhythmia, conduction block, myocardial infarction, STT changes, ventricular hypertrophy, atrial enlargement, electrical axis deviation and other diagnostic results of various heart diseases

Specifications

ECG

Range	0.15mV-5.5mV
Accuracy	Undefined
Resolution	2.36uV/LSB
Lead type	12lead: I, II, III, AVR, AVL, AVF, V1, V2, V3, V4, V5, V6

HR

Range	15~350bpm
Accuracy	±1bpm
Resolution	1bpm

Operating Environment

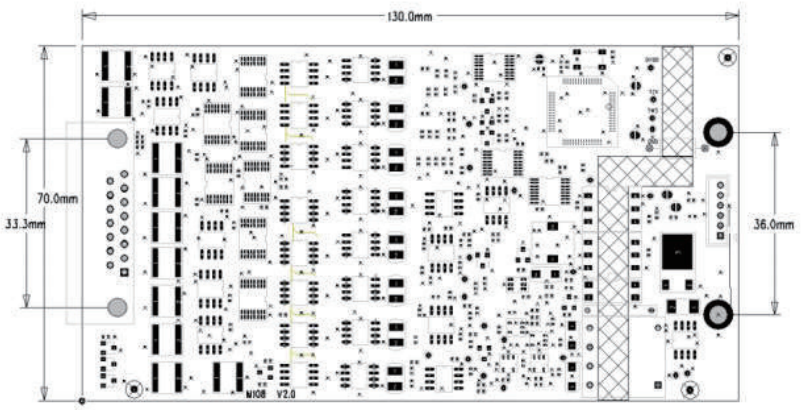
Power supply	DC.12V±5%	
Power consumption	≤3W	
Communication	TTL, USART	
Temperature	Operating 0°C~ 70°C	Storage -40°C~ 70°C

Compliance

Standard	IEC 60601-2-27: 2011	AAMI EC57:2012/(R)2020

Dimensions

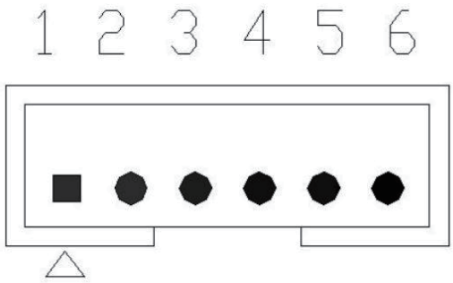
The board dimensions are given in millimeters.



Interfaces

Power and Communication Interface

Power and communication interface socket pin definition diagram (note: 1 and 2 pins are the same input, 3 and 4 pins are the same input):



Note 1: TXD is the data sent by the M108 module to the host.

Note 2: J4 socket pin pitch is 2.0mm

Power and communication interface socket J4 pins are defined as follows:

Pin No	Signal	Description
1	*DC12V*	*DC12V power input*
2	*DC12V*	*DC12V power input*
3	*GND*	*Ground*
4	*GND*	*Ground*
5	*RXD*	*UART Receiving data from host to the module*
6	*TXD*	*UART Receiving data from module to host*

Purchase Guider

Code	Name	Quantity	Description	Image
022-060301-00	**MECG12 board**	x1		
/	**Algorithm Lib**	Software x1	Connect with M108 Module	/
041-004008-00	**ECG Cable** 10-lead defibrillation proof, European standard, button type	Optional x1	Connect with ECG interface	

* The data is subject to change without notice. Please refer to the manual for the contraindications and precautions

Headquarter
ZUG MEDICAL SYSTEMS SAS
136 Chemin des Breguieres
83170 Brignoles, France

Tel:+33(0)9 84 116 339
sales@zugmed.com
www.zugmed.com