

## **GSMM2 MODULE DESCRIPTION**

## Specification

### Digital inputs

Number – 2,  
Input voltage 6 ... 15 V  
AC optocoupler

### Analog inputs.

Number - 6  
Input voltage range 0 ... 4,3 V  
Optional pull up resistors 470 Ohm.  
Input protection with ATmega128 clamp diodes

### Electret microphone input

### Digital outputs

Number - 4  
Maximum output voltage – 30 V,  
Maximum output current – 30 mA.

### Speaker output

8 Ohm, 1 W

### Power supply

Supply voltage (pin 1)  
Speaker is not active - 6,0 ... 14 VDC;  
Speaker is active - 6,0 ... 7,5 VDC;  
Supply current: Speaker is not active - 250 mA;  
Speaker is active – 450 mA;  
idle mode, sleep mode off – 80 mA;  
idle mode, sleep mode on – 50 mA;  
idle mode, deep sleeping – 30 mA.  
Output regulator voltage (pin 15) - 4,3 VDC

### Serial interface

RS485, 19200 baud, 8 bit, no parity.

### Radio Performance Multi-band

Triple-band module – 850, 900, 1800 MHz  
Quad-band module – 850, 900, 1800, 1900 Mhz  
Sensitivity - - 106 dBm  
850 and 900 MHz Transmit Power – Class 4 (2 W)  
1800 and 1900 MHz Transmit Power – Class 1 (1 W)

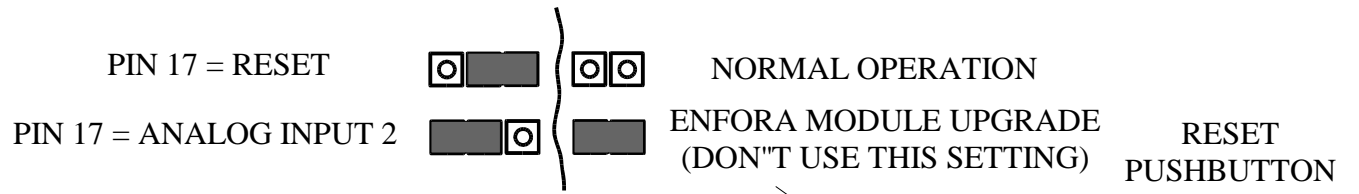
### SIM holder

3 V

### Antenna connector

SMA type

## GSMM2 CONROL AND INDICATORS



INPUT OUTPUT  
CONNECTOR  
DB25 MALE

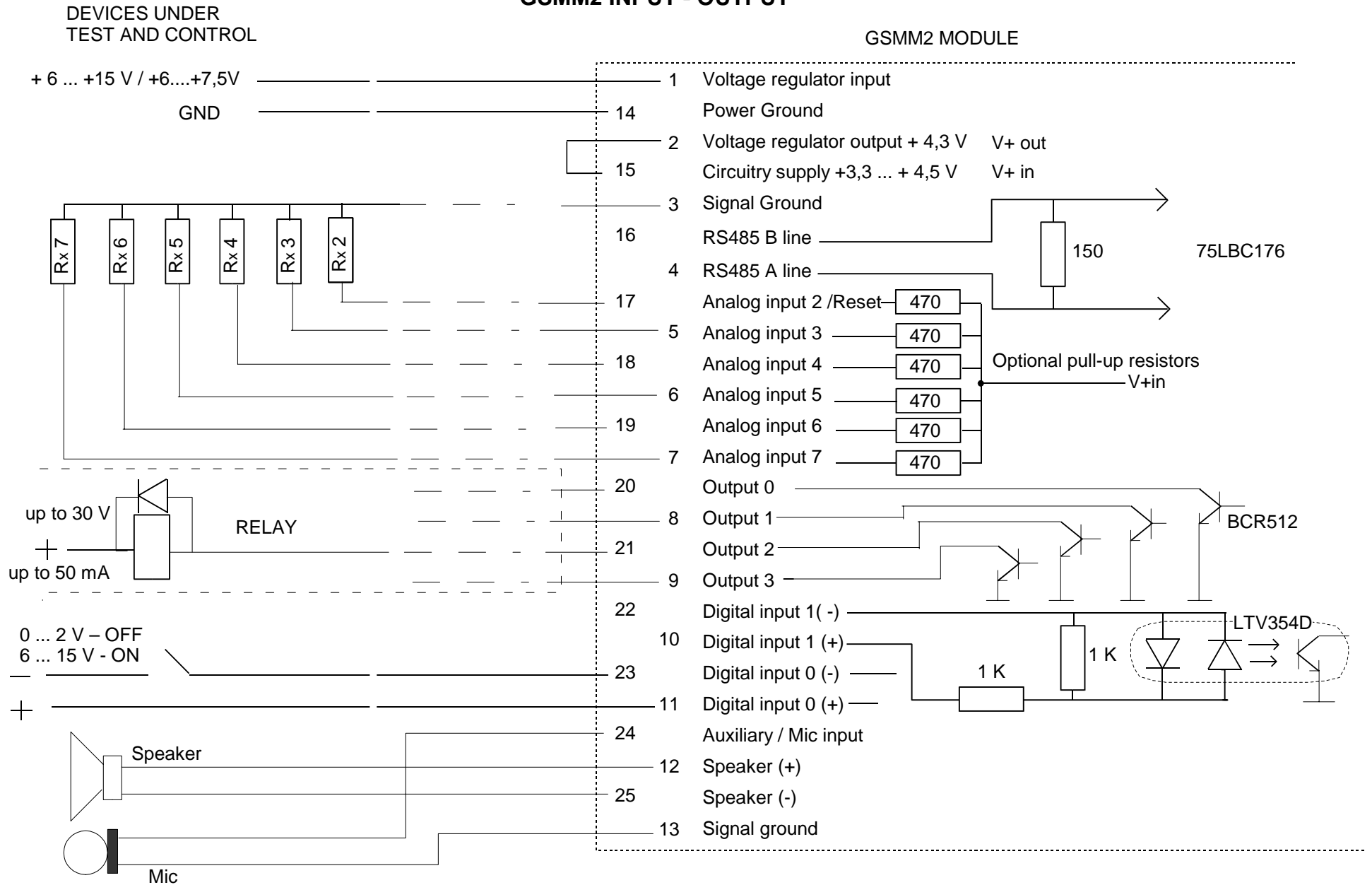


SIM HOLDER

RED LED – GSM/GPRS TRANSMITTING  
GREEN LED – SIGNAL STRENGHT

SMA ANTENNA  
CONNECTOR

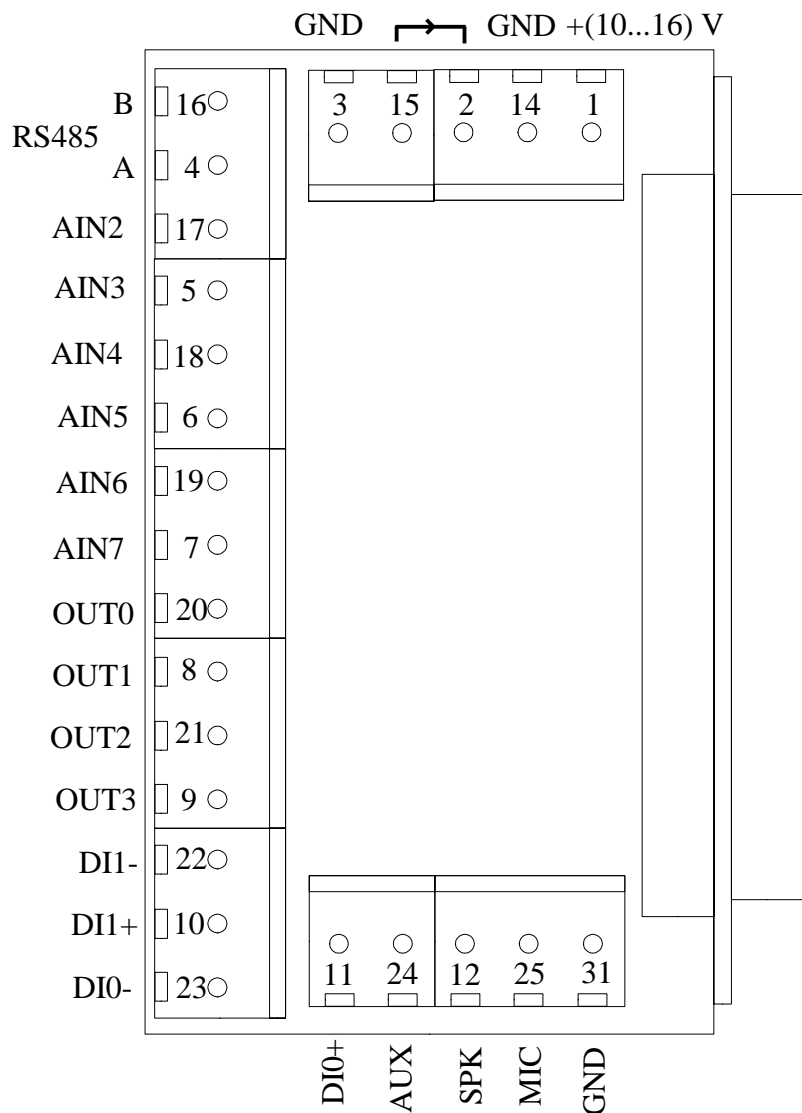
## GSMM2 INPUT - OUTPUT



## TERMINAL BOARD TB02



Terminal blocks for all inputs – outputs;  
 Additional voltage regulator extends supply voltage range to  
 10 ... 16 VDC in voice call mode and  
 10 ... 30 VDC in SMS mode



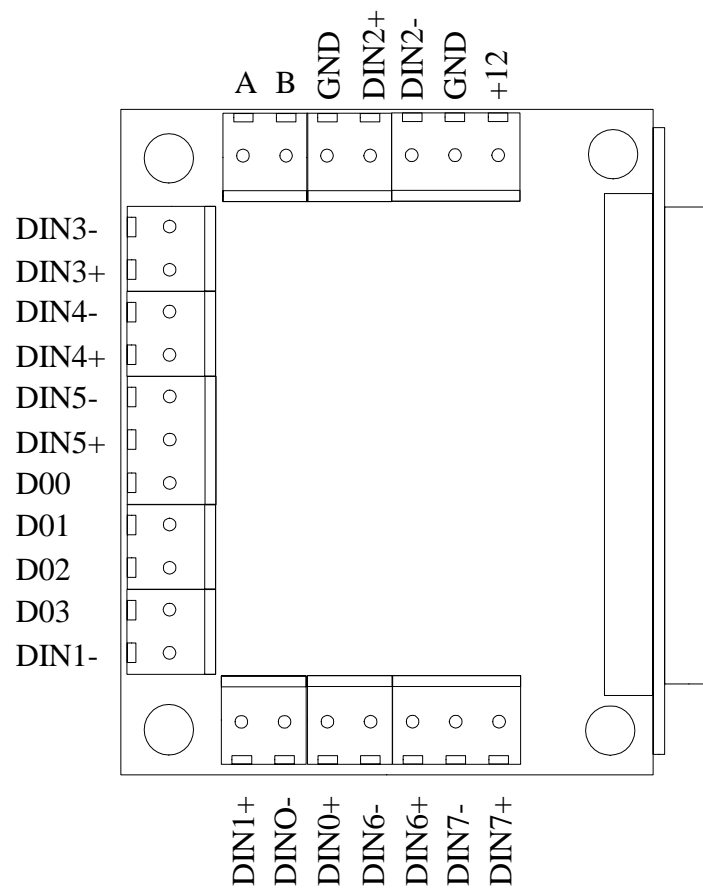
## TERMINAL BOARD TB03



Converts 6 analog inputs into optically isolated digital inputs.

Total: 8 digital inputs, 4 open collector outputs.

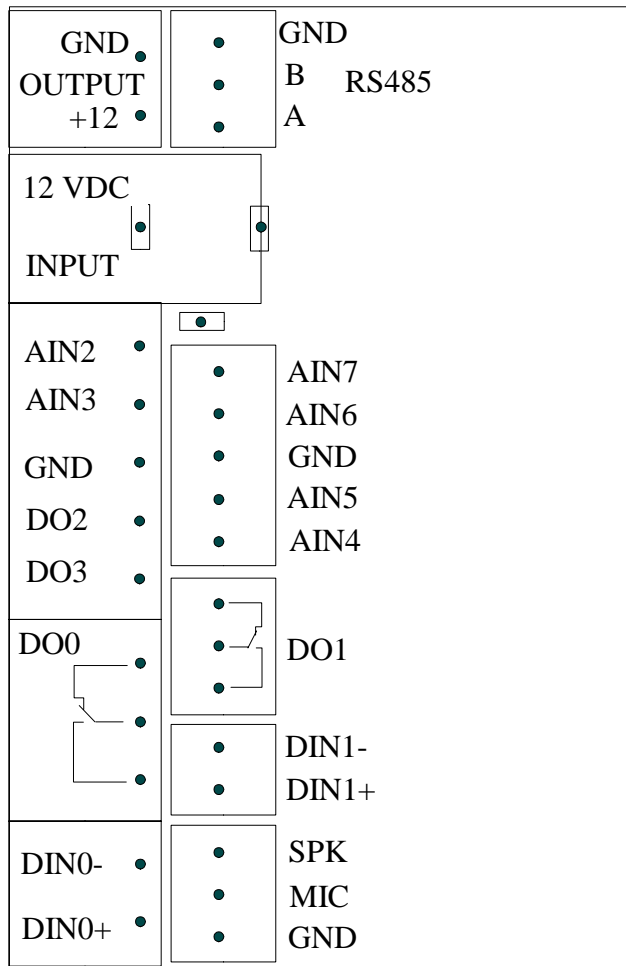
Additional voltage regulator extends supply voltage range to  
10 ... 16 VDC in voice call mode and  
10 ... 30 VDC in SMS mode



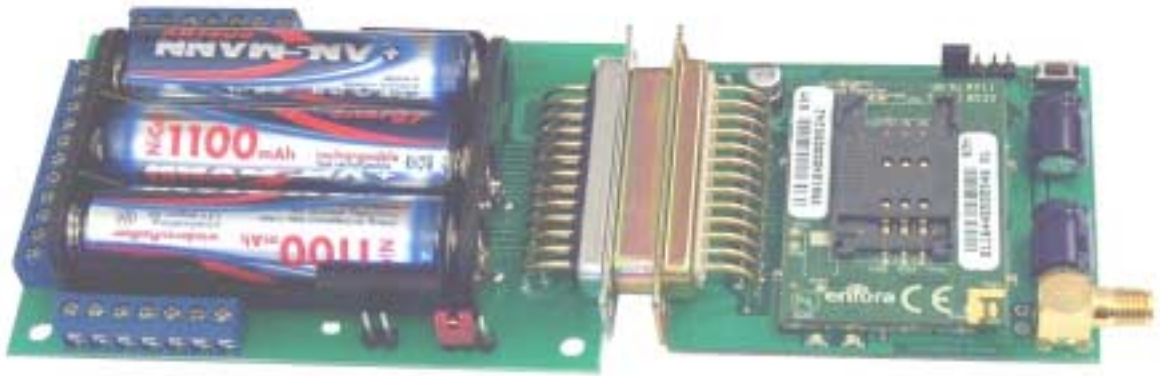
## TERMINAL BOARD TBB04



- Reserve 1.1 Ah NiCd battery;
- NiCd battery charger;
- Terminal blocks or sockets for all inputs–outputs;
- Supressor diodes on all analog inputs;
- Two relays;
- 12 VDC power supply,
- Optional external 12 V power adapter.



## TERMINAL BOARD TBB05



Reserve 1.1 Ah NiCd battery;

NiCd battery charger;

Converts 6 analog inputs into optically isolated digital inputs.

Total: 8 digital inputs, 4 open collector outputs.

Additional voltage regulator extends supply voltage range to

10 ... 16 VDC in voice call mode and

10 ... 30 VDC in SMS mode

