

GSMM1 MODULE DESCRIPTION

VERSION 0412

Specification

2 optically isolated digital inputs

AC or DC input (AC optocoupler)

"On" input voltage 5 ... 15 VDC

6 analog inputs.

Input voltage range 0 ... 4,3 V

Pull up resistors 470 Ohm.

4 open collector digital outputs

Maximum output voltage – 30 V,

Maximum output current – 50 mA.

Electret microphone input

Electret microphone phantom power.

Speaker output

8 Ohm, 1 W

Power supply

Supply voltage (pin1) if speaker is not active - 6,5 ... 15 VDC;

if speaker is active - 6,0 ... 7,5 VDC;

Supply current:

Active mode, speaker is not active - 250 mA;

Active mode , 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.

Internal 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

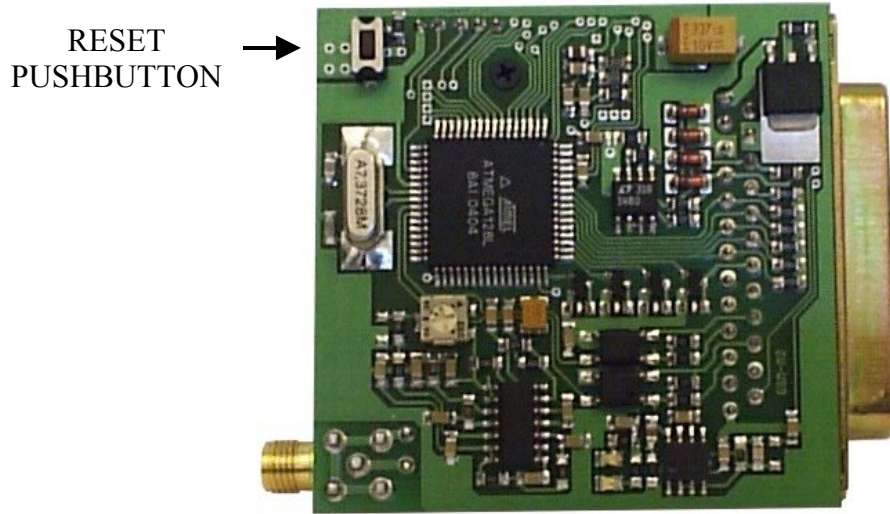
3 V

Antenna connector

SMA type

GSMM1 CONROL AND INDICATORS

PIN 17 = RESET			NORMAL OPERATION
PIN 17 = ANALOG INPUT 2			ENFORA MODULE UPGRADE (DON'T USE THIS SETTING)

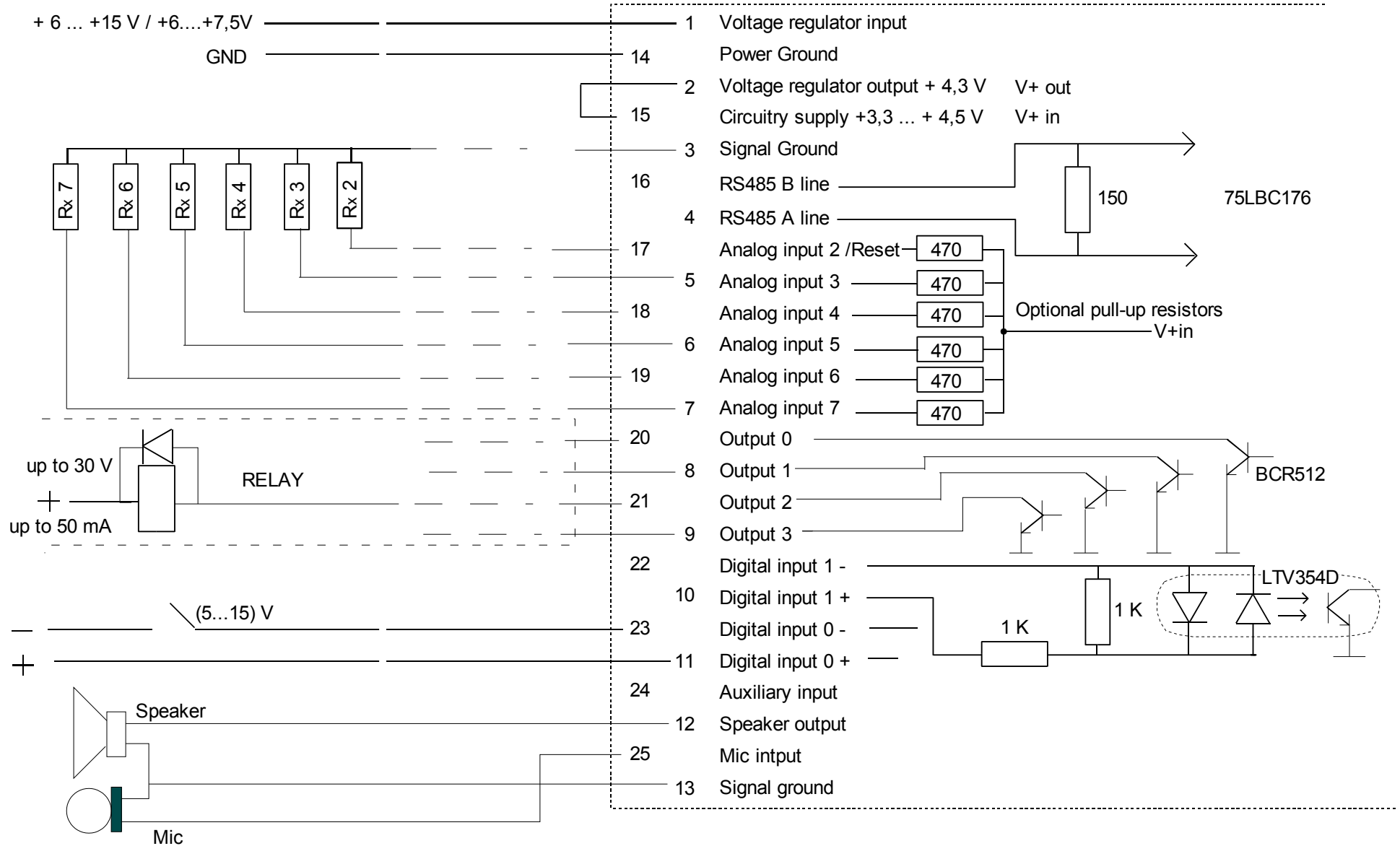


- RED LED – GSM/GPRS TRANSMITTING
- GREEN LED – SIGNAL STRENGTH

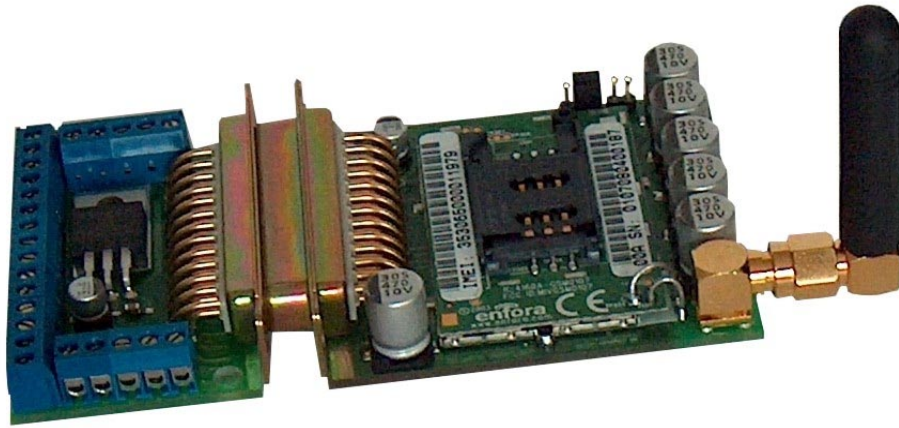
GSMM1 INPUT - OUTPUT

DEVICES UNDER
TEST AND CONTROL

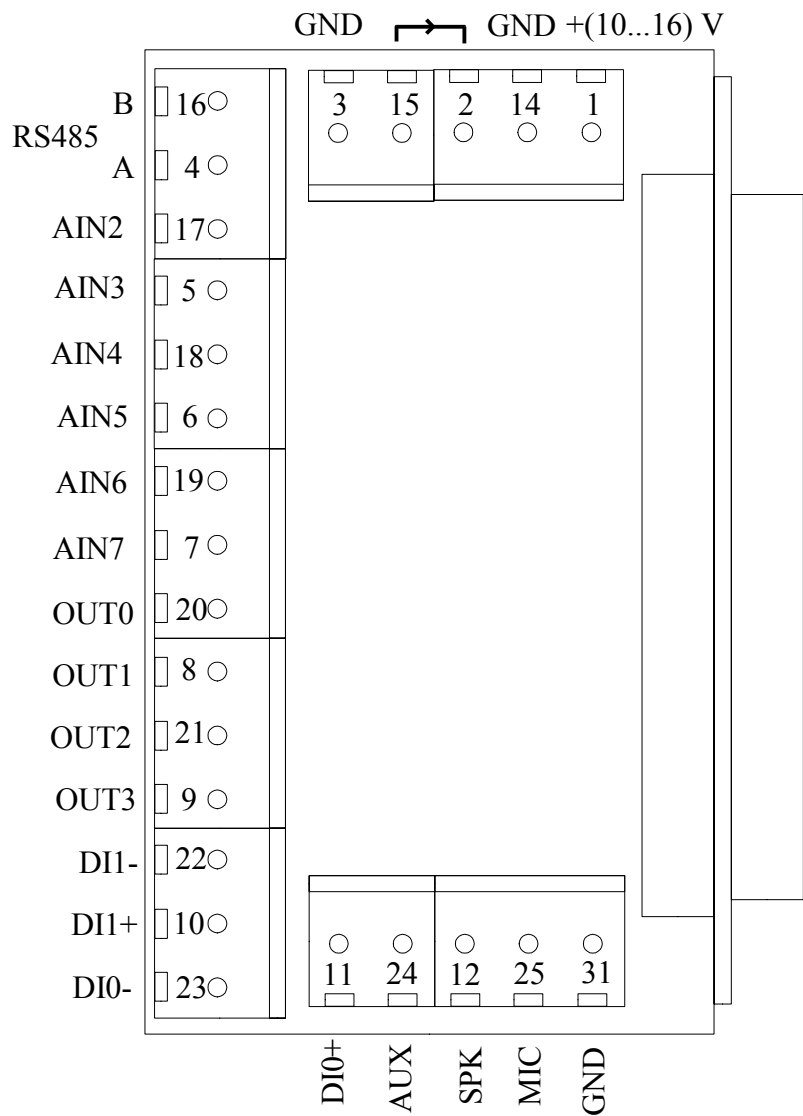
GSMM1 MODULE



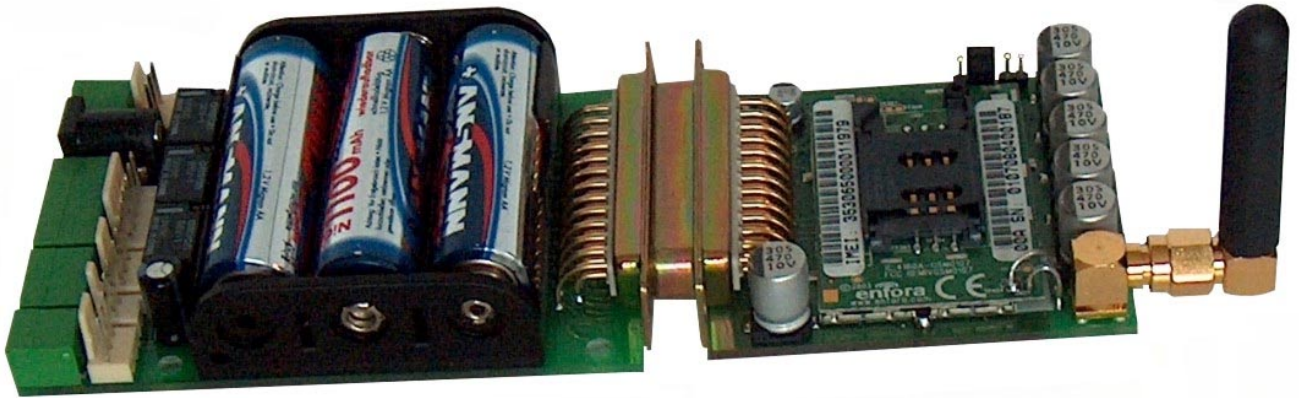
TERMINAL BOARD



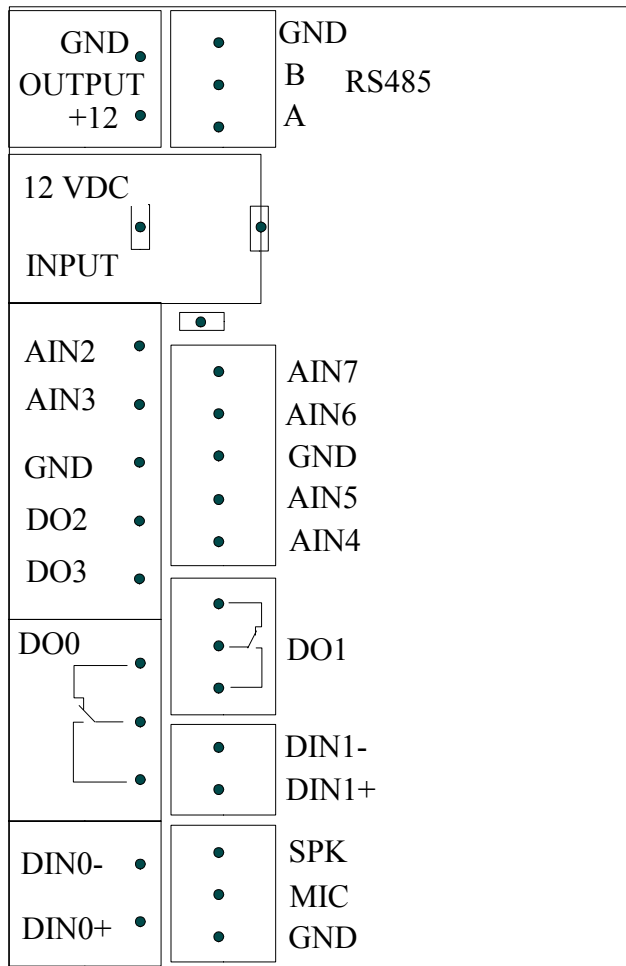
Terminal blocks for all inputs – outputs;
 Additional voltage regulator extends supply voltage range to
 10 ... 16 VDC in voice call mode and
 10 ... 30 VDC in SMS mode



BATTERY PACK



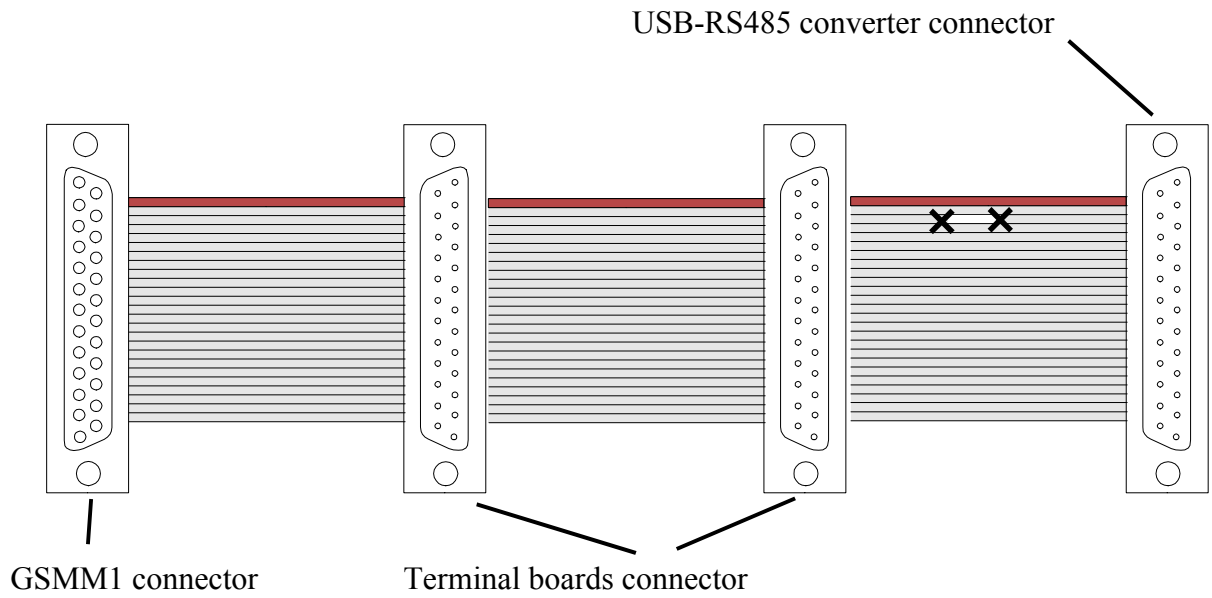
- Reserve 1.1 Ah NiCd battery;
- NiCd battery charger;
- Additional input "Mains OK";
- Terminal blocks or sockets for all inputs–outputs;
- Suppressor diodes on all analog inputs;
- Two relays;
- 12 VDC power supply,
- Optional external 12 V power adapter.



PROGRAMMING KIT



USB to RS422/RS485 converter and changer



GSMM1 connector

Terminal boards connector

USB-RS485 converter connector

Flat cable for debugging