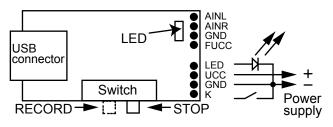
EMM Tiny Stereo Model 1120/2240/4480/8960/17920

- Board;
- dimensions: 27.5x14.5x6 mm;
- weight;(without miniSD flash card and power source): <2 g;
- recording mode: mono/stereo;
- current consumption in recording mode
 (sampling rate 8 K Hz, without compression): <2 mA;
- current consumption in VAS mode (audio signal below threshold): 350 mA;
- current consumption in stand-by mode: 25 mA;
- supply voltage: 3 V.

Package Content

- Module;
- USB cable;
- CD with drivers and programs;
- user manual.

Description



Contact Assignments

| Label | Assignment | Parameters | Notes |
|-------|--|--|--|
| AINR | Right channel input | 2.9 Vpp voltage audio source with | |
| AINL | Left channel input | 1.5 V constant component | |
| GND | Ground | | |
| FUCC | +power supply of external audio source (micro- phone) | voltage is 3+/- 0.2V, maximum load current is 10 mA | The connector is alive while recording |
| LED | Indicator signal | For external light diode connection | Red LED is rec- ommended |
| UCC | + module's power supply | 3+/-0.2 V voltage | |
| GND | Ground | | |
| К | External control input | When it is con- nected with ground – recording if disconnected - stop | The module's switch has to be in the STOP position |

Connection of the Module

The UCC (+) and GND (-) connectors are used for power supply connection.

Attention! Check polarity while connecting the module to a power source! Otherwise, the module could be damaged.

The AINL and AINR connectors serve for connecting to the 2.9 Vpp voltage audio source with a 1.5 V constant component. If the audio source provides mono audio signal, the source should be connected to the AINR connector.

The FUCC connector serves to provide power supply for external audio sources. As recording is turned on, the connector becomes alive: the voltage is 3+/- 0.2 V, maximum load current is 10 mA.

As audio signal sources the Telesystems' microphones for the USB Recorder Mini can be used.

The LED and K connectors serve for connecting an external indicator and external control. It is recommended to use LED as an external indicator. An external control has to provide

connection between The K and GND connectors to start recording and should be disconnected to stop recording. Pay attention that the module's switch has to be in the STOP position if the external control is used.

When you turn on the module, set the switch in the RECORD position for 2-3 seconds and then back to the STOP position. The indicator will flash 3 times showing that the module started self-testing. If this does not occurred, check the module's power supply.

After 5-10 seconds the module will flash for the fourth time and will be ready to start recording. The length of this flash depends on memory capacity and can be dozens of seconds.

Attention!

The module is sensitive to static electricity. Use an antistatic bracelet while soldering. The soldering equipment has to be grounded.

To estimate the module's operation in different modes, use the table below:

Current Consumption (mA) in Different Recording Modes with 3 V Voltage Supply

| | 5,5 kHz | | 8 kHz | | 11 kHz | | 16 kHz | | 22 kHz | |
|---------------------|---------|-----|-------|-----|--------|-----|--------|-----|--------|-----|
| | Mono | St. | Mono | St. | Mono | St. | Mono | St. | Mono | St. |
| Without compression | 1,7 | 2,3 | 2 | 3 | 2,7 | 3,6 | 3,6 | 4,5 | 3,5 | 5,9 |
| u-Law | 1,9 | 3 | 2,3 | 3,5 | 2,9 | 5 | 3,8 | 6,1 | 5 | - |
| 4-bit ADPCM | 2,1 | 3,2 | 2,8 | 4,1 | 3,2 | 5,4 | 4,4 | 6,7 | 5,4 | - |
| 2-bit ADPCM | 2 | 3 | 2,5 | 3,7 | 3,1 | 5,3 | 4 | 6,4 | 5,4 | - |

Start/Stop Recording

To start recording, set the switch into the "START" position. The voice recorders' LED will flash five times and then start blinking in a sequence while the recording is in progress. To stop recording, set the switch into the "STOP" position.

Blinking sequences indicate the supply voltage level and 6

available memory space. The first sequence indicates that the supply voltage level is: 1 flash –maximum, 2 flashes – enough for work, 3 flashes –not enough for work. The second blinking sequence indicates the amount of memory available: 1 flash – 76-100%, 2 flashes –51-75%, 3 flashes – 25-50%, 4 flashes – 1-25%.

TS-Market Ltd. The Manufactory Warranty Coupon

The manufacturer undertakes warranty repair liabilities for 1 year from the date of purchase, but no longer than 2 years from the date of manufacture of the product (warranty does not cover batteries). Paid repair is provided within recorder's operation lifetime (5 years). The manufacturer reserves the right to refuse in repair after the expiration of recorder operation life

This warranty is voided if the recorder is:

- · improperly used
- · mechanical damaged
- · received without supplier warranty tag on this document

All questions regarding product exchange and return must be solved with the seller's company according to Protection of Consumers Law.

| LIMIN THIS-OTENEO MICCOL | |
|--------------------------|-------------------------|
| Models: | |
| ☐EMM Tiny STEREO - 1120 | □EMM Tiny STEREO - 2240 |
| □EMM Tiny STEREO - 4480 | □EMM Tiny STEREO - 8960 |
| □EMM Tiny STEREO - 17920 | |
| Number | QC |
| Selling date | Seller |

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