

# Audio Commands TRM240

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## Audio Related Commands

### [AT+CLVL Loudspeaker Volume Level Selection](#)

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The command is used to select the volume of the internal loudspeaker of the MT.

### [AT+CMUT Mute Control](#)

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The command is used to enable/disable the uplink voice muting during a voice call.

### [AT+QAUDLOOP Enable/Disable Audio Loop Test](#)

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The command is used to enable/disable audio loop test.

## **AT+VTS DTMF and Tone Generation**

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The command is used to send ASCII characters which cause MSC to transmit DTMF tones to a remote subscriber. It can only be operated in voice call.

## **AT+VTD Set Tone Duration**

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The command sets the duration of DTMF tones. It can also set time interval of two tones when sending multiple tones at a time.

## **AT+QAUDMOD Set Audio Mode**

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The command sets the audio mode required for the connected device. It will take effect at next sound activity.

## **AT+QDAI Digital Audio Interface Configuration**

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The command is used to configure the digital audio interface.

- When **<io>**=1, customers can define the PCM formats by themselves. In the following conditions, the module can be used directly with default settings (master mode, short-synchronization, 2048K clock frequency, 16-bit liner data format, 8K sampling rate).
- When **<io>**=2, and the external codec chip linked with PCM interface is the NAU8814 model and configurable through the I2C
- When **<io>**=3, and the external codec chip linked with PCM interface is the ALC5616 model and configurable through the I2C
- When **<io>**=5, and the external codec chip linked with PCM interface is the TLV320AIC3104 model and configurable through the I2C

## **AT+QEEC Set Echo Cancellation Parameters**

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The command is used to set echo cancellation parameters

## **AT+QSIDET Set the Side Tone Gain in Current Mode**

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The command is used to set the side tone gain value in current mode. It will take effect at next sound activity.

## **AT+QMIC Set Uplink Gains of MIC**

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The command is used to set the uplink gains of microphone.

## **AT+QRXGAIN Set Downlink Gains of RX**

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The command is used to set RX digital gains to change the downlink volume

## **AT+QIIC IIC Read & Write**

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The command is used to configure the codec via IIC interface.

## **AT+QTONEDT Enable/Disable DTMF Detection**

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The command is used to enable or disable DTMF detection. When this function is enabled, DTMF tones sent by other side will be detected, and it will be reported on the assigned serial port.

## **AT+QLDTMF Play Local DTMF**

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The command is used to play a local DTMF string, and the maximum length is 20 characters. It can be used to stop playing the DTMF string.

## **AT+QLTONE Play a Local Customized Tone**

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The command is used to play a local customized tone, use **<period\_on>** to indicate play time and **<period\_off>** to indicate mute time, and **<duration>** to indicate total time.