

# STMICROELECTRONICS Analog ICs



Products may be RoHS compliant. Check mouser.com for RoHS status.

## MEMS AUDIO SENSOR OMNIDIRECTIONAL DIGITAL MICROPHONE

These devices are a compact, low-power, bottom port, omnidirectional digital MEMS microphone. The MP34DB01 is built with a capacitive sensing element and an IC interface with stereo operation capability.



◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STM Part No. | Package Type | Output Type | Supply Voltage (V <sub>pp</sub> ) |         |         | Current Consumption Typ (mA) | Current Consumption (Power Down Mode) Typ (mA) | Price Each |      |      |
|------------------|--------------|--------------|-------------|-----------------------------------|---------|---------|------------------------------|--|------------|------|------|
|                  |              |              |             | Min (V)                           | Typ (V) | Max (V) |                              |  | 1          | 10   | 100  |
| ◆ 511-MP34DB01   | MP34DB01     | RHLGA-4      | Digital     | 1.64                              | 1.8     | 3.6     | 0.65                         | 0.02   | 6.45       | 5.77 | 4.76 |
| ◆ 511-MP34DT01   | MP34DT01     | HCLGA-4      | Digital     | 1.64                              | 1.8     | 2.86    | 0.6                          | 0.02   | 4.52       | 4.04 | 3.34 |

## SMART SENSORS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STM Part No. | Package Type   | Description  | Supply Voltage (V) | Precision Volt. Reference V | Reference (ppm/°C) | Price Each |      |      |
|------------------|--------------|----------------|--|--------------------|-----------------------------|--------------------|------------|------|------|
|                  |              |                |  |                    |                             |                    | 1          | 10   | 100  |
| 511-STPMS2H-PUR  | STPMS2H-PUR  | QFN-16 4 x 4mm | Smart sensor II dual-channel w/ second order sigma-delta modulator | 3.2-5.5            | 1.23                        | 30                 | 1.69       | 1.60 | 1.55 |
| 511-STPMS2L-PUR  | STPMS2L-PUR  | QFN-16 4 x 4mm | Smart sensor II dual-channel w/ second order sigma-delta modulator | 3.2-5.5            | 1.23                        | 30                 | 2.50       | 2.23 | 1.84 |

## PROGRAMMABLE ENERGY METERING IC

The STMP10 is designed for effective measurement of active, reactive and apparent energy in a power line system using current transformer and shunt sensors. The device can be implemented for peripheral measurement in a microcontroller-based single-phase or poly-phase energy meter.



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STM Part No. | Package Type | Description  | Supply Voltage (V) | Precision Volt. Reference V | Reference (ppm/°C) | Price Each |      |      |
|------------------|--------------|--------------|--|--------------------|-----------------------------|--------------------|------------|------|------|
|                  |              |              |  |                    |                             |                    | 1          | 10   | 100  |
| 511-STPM10BTR    | STPM10BTR    | TSSOP20      | Programmable single-phase energy metering IC with tamper detection | 3.165 to 5.5V      | 1.23V w/30 ppm              | -40 to 85          | 3.30       | 2.97 | 2.42 |

## S-TOUCH™ CONTROLLERS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.     | STM Part No.   | Package Type   | No. of Touchkeys | Wheel/Slider | Supply Voltage |           | GPIO | PWM | Technology | Price Each |      |      |
|----------------------|----------------|----------------|------------------|--------------|----------------|-----------|------|-----|------------|------------|------|------|
|                      |                |                |                  |              | (Min.)(V)      | (Max.)(V) |      |     |            | 1          | 10   | 100  |
| ◆ 511-STMP16M31PXQTR | STMP16M31PXQTR | QFN-32 4 x 4mm | 16               | No           | 1.65           | 1.95      | 16   | 16  | Capacitive | 5.29       | 4.73 | 3.91 |
| ◆ 511-STMP16M31QTR   | STMP16M31QTR   | QFN-32 4 x 4mm | 16               | Yes          | 1.65           | 1.95      | 16   | 16  | Capacitive | 4.72       | 4.25 | 3.46 |

## TEMPERATURE SENSORS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.     | STM Part No.   | Package Type | Description                   | Supply Voltage (V) | Set Curr. Max. (mA) | Set Curr. Error Max. (%) | Operating Temperature Range (°C) | Effective Shunt Cap. Typ. (pF) | Price Each |      |      |
|----------------------|----------------|--------------|-------------------------------|--------------------|---------------------|--------------------------|----------------------------------|--------------------------------|------------|------|------|
|                      |                |              |                               |                    |                     |                          |                                  |                                | 1          | 10   | 100  |
| ◆ 511-LM234D         | LM234D         | SO-8         | 3-terminal adjustable current | 1.0 to 40          | 10.0                | 12                       | -25 to +100                      | 15                             | 1.05       | .92  | .80  |
| ◆ 511-LM334D         | LM334D         | SO-8         | 3-terminal adjustable current | 1.0 to 40          | 10.0                | 12                       | 0 to +70                         | 15                             | 1.44       | 1.34 | 1.15 |
| 511-LM235Z           | LM235Z         | TO-92        | Precision linear output       | 2.92 to 3.04       | 15.0                | ----                     | -40 to +125                      | ----                           | 1.46       | 1.31 | 1.20 |
| 511-LM335AZ          | LM335AZ        | TO-92        | Precision linear output       | 2.92 to 3.04       | 15.0                | ----                     | -40 to +100                      | ----                           | .92        | .78  | .75  |
| 511-LM335Z           | LM335Z         | TO-92        | Precision linear output       | 2.92 to 3.04       | 15.0                | ----                     | -40 to +100                      | ----                           | .80        | .71  | .60  |
| ◆ 511-STTS2002B2DN3F | STTS2002B2DN3F | TDFN-8       | with integrated 2Kb EEPROM    | 2.3 to 3.6         | ----                | ----                     | -40 to +125                      | ----                           | 2.76       | 2.36 | 1.93 |
| ◆ 511-STTS751-0DP3F  | STTS751-0DP3F  | μDFN-6L      | Low-voltage local digital     | 2.25 to 3.6        | ----                | ----                     | -40 to +125                      | ----                           | 1.74       | 1.52 | 1.27 |
| ◆ 511-STTS751-1DP3F  | STTS751-1DP3F  | μDFN-6L      | Low-voltage local digital     | 2.25 to 3.6        | ----                | ----                     | -40 to +125                      | ----                           | 1.74       | 1.52 | 1.27 |

## S-FSK POWER LINE NETWORKING SYSTEM-ON-CHIP



◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | STM Part No.    | Package Type   | Description  | Supply Voltage (V) | Prog. Bit Rate @ 50Hz | Power Supply Current (Max) (mA) |         | Price Each |        |       |  |
|---------------------|-----------------|--|--|--------------------|-----------------------|---------------------------------|---------|------------|--------|-------|--|
|                     |                 |  |  |                    |                       | Rx Mode                         | Tx Mode | 1          | 10     | 100   |  |
| ◆ 511-ST7570        | ST7570          | VFQFPN-48  | Fully integrated narrow-band power line networking system-on-chip      | 8.0-18.0           | 2.4Kbps               | 0.5                             | 30      | 7.41       | 7.20   | 6.72  |  |
| ◆ 511-ST7580        | ST7580          | QFPN-48  | Fully integrated narrow-band power line networking system-on-chip      | 8.0-18.0           | 28.8Kbps              | 0.5                             | 30      | 12.88      | 11.63  | 10.62 |  |
| ◆ 511-ST7590        | ST7590          | QFN-48   | Fully integrated narrow-band OFDM power line networking system-on-chip | 8.0-18.0           | 128Kbps               | 0.5                             | 30      | 14.08      | 12.83  | 11.82 |  |
| Evaluation Board    |                 |  |  |                    |                       |                                 |         |            | Price  |       |  |
| 511-EVALKITST7570-1 | EVALKITST7570-1 | Demo kit embeds functions required for a turn-key power line communication network (ST7570 modem board, power supply and USB port) |  |                    |                       |                                 |         |            | 250.00 |       |  |
| 511-EVALKITST7580-1 | EVALKITST7580-1 | Demo kit embeds functions required for a turn-key power line communication network (ST580 modem board, power supply and USB port)  |  |                    |                       |                                 |         |            | 260.00 |       |  |
| 511-STEVAL-IPP002V1 | STEVAL-IPP002V1 | Demo board typical energy meter board (S-FSK Power line communication up to 2.4kbps) compliant IEC 61334-5-1 standard              |  |                    |                       |                                 |         |            | 298.48 |       |  |

## VOLTAGE LEVEL TRANSLATOR

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.  | STM Part No. | Package Type | No. of Outputs | Supply Voltage |          | Propagation Delay (Max) | VIH (Max) (V) | VIL (Max) (V) | Temp. Range (°C) | Price Each |      |      |
|-------------------|--------------|--------------|----------------|----------------|----------|-------------------------|---------------|---------------|------------------|------------|------|------|
|                   |              |              |                | Min. (V)       | Max. (V) |                         |               |               |                  | 1          | 10   | 100  |
| ◆ 511-ST2G3236QTR | ST2G3236QTR  | QFN-10       | 1              | 1.4            | 3.6      | 6.2ns                   | 3.6           | 0.35          | -40 to +85       | 2.24       | 2.03 | 1.63 |
| ◆ 511-ST2189QTR   | ST2189QTR    | QFN-20       | 1              | 1.65           | 3.6      | 4ns                     | 1.2           | 0.30          | -40 to +85       | 2.92       | 2.64 | 2.12 |

## ANALOG IC EVALUATION BOARDS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | STM Part No.    | Description  | Price Each |
|---------------------|-----------------|--|------------|
| 511-EVL150W-ADP-SR  | EVL150W-ADP-SR  | 150W SMPS demonstration board tailored to all-in-one computer power supply specifications  | 150.00     |
| 511-EVAL2293Q       | EVAL2293Q       | Evaluation board for a push-pull four channel driver with integrated diodes (L2293Q)   | 35.00      |
| 511-EVAL6229QR      | EVAL6229QR      | Evaluation board using the L6229Q DMOS driver for a three-phase BLDC motor control application   | 43.75      |
| 511-EVAL6235PD      | EVAL6235PD      | Demonstration board using a DMOS driver 3-phase brushless DC motor (L6235)   | 62.50      |
| 511-EVAL6460        | EVAL6460        | Evaluation board for a SPI configurable stepper and DC multi motor driver (L6460)  | 68.75      |
| 511-EVAL6470H       | EVAL6470H       | Evaluation board for the L6470, a microstepping motor driver   | 62.50      |
| 511-EVLSRK2000-D-40 | EVLSRK2000-D-40 | Demonstration board for the evaluation of the SRK2000 (with STD954N4F3 MOSFET) in LLC resonant converters w/synch rectification          | 43.75      |
| 511-EVLSRK2000-L-40 | EVLSRK2000-L-40 | Demonstration board for the evaluation of the SRK2000 (with STL140N4LLF5 MOSFET) in LLC resonant converters w/synch rectification        | 31.25      |
| 511-EVLSRK2000-L-60 | EVLSRK2000-L-60 | Demonstration board for the evaluation of the SRK2000 (with STL85N6F3 MOSFET) in LLC resonant converters w/synch rectification           | 43.75      |
| 511-EVLSRK2000-S-40 | EVLSRK2000-S-40 | Demonstration board for the evaluation of the SRK2000 (with STS15N4LLF3 MOSFET) in LLC resonant converters w/synch rectification         | 43.75      |
| 511-EVLVIP25L-10WSB | EVLVIP25L-10WSB | Demonstration board based on the VIPER25 (a off-line high voltage converter)   | 68.75      |
| 511-STEVAL-CBP006V1 | STEVAL-CBP006V1 | Demonstration board to provide a ready-to-use platform for power supply management and user-interface based on STM8S MCU                 | 75.00      |
| 511-STEVAL-CCA018V1 | STEVAL-CCA018V1 | Demonstration board is designed provide a platform for evaluating the performance of the TS4657 stereo digital-to-analog-converter (DAC) | 56.25      |
| 511-STEVAL-IHM025V1 | STEVAL-IHM025V1 | Demonstration board is an AC/DC inverter that generates a three-phase waveform for driving 2 or 3-phase motors                           | 268.75     |
| 511-STEVAL-IHM029V1 | STEVAL-IHM029V1 | Demonstration board designed for the home appliance market, with particular focus on vacuum cleaners, food processors and power tools    | 101.25     |
| 511-STEVAL-IHM030V1 | STEVAL-IHM030V1 | Demonstration board for brushed DC motor (BDC) which presents a 24V, up to 2kW brushed DC motor driver solution                          | 212.50     |
| 511-STEVAL-ISA071V1 | STEVAL-ISA071V1 | Demonstration board based on the VIPER16 (a 4W non-isolated, wide input-voltage range SMPS)  | 53.75      |