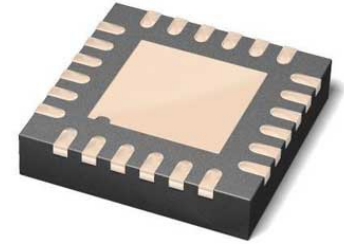


## AFE General Purpose 4 ADC 24bit 3.3V 24-Pin QFN EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** QFN24

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The STPM3x is an ASSP family designed for high accuracy measurement of power and energies in power line systems using the Rogowski coil, current transformer or shunt current sensors. The STPM3x provides instantaneous voltage and current waveforms and calculates RMS values of voltage and currents, active, reactive and apparent power and energies. The STPM3x is a mixed signal IC family consisting of an analog and a digital section. The analog section consists of up to two programmable gain low-noise low-offset amplifiers and up to four 2nd order 24-bit sigma-delta ADCs, two bandgap voltage references with independent temperature compensation, a low drop voltage regulator and DC buffers. The digital section consists of digital filtering stage, a hardwired DSP, DFE to the input and a serial communication interface (UART or SPI). The STPM3x is fully configurable and allows a fast digital system calibration in a single point over the entire current dynamic range.

### Key Features

Exceeds 50-60 Hz EN 50470-x, IEC 62053-2x, ANSI12.2x standard requirements for AC watt meters

Reactive power accuracy:

Dual mode apparent energy calculation

Instantaneous and averaged power

RMS and instantaneous voltage and current

Under and overvoltage detection (sag and swell) and monitoring

Overcurrent detection and monitoring

UART and SPI serial interface with programmable CRC polynomial verification

Programmable LED and interrupt outputs

### Recommended For You

**STIS14PHR**

STMicroelectronics, Inc  
HSOP-8

**ST890CDR**

STMicroelectronics, Inc  
SOP-8

**STWD100YNYWY3F**

STMicroelectronics, Inc  
SOT23-5

**STC3100IQT**

STMicroelectronics, Inc  
QFN

**STM706TM6F**

STMicroelectronics, Inc  
SOP-8

**STWD100NYWY3F**

STMicroelectronics, Inc  
SOT23-5

**STPD01PUR**

STMicroelectronics, Inc  
24-QFN

**STGAP2SICSNIR**

STMicroelectronics, Inc  
SOIC-8

**STSPIN230**

STMicroelectronics, Inc  
VFQFPN16

**STNS01PUR**

STMicroelectronics, Inc  
DFN-12

**STWBC**

STMicroelectronics, Inc  
QFN32

**STWBC2**

STMicroelectronics, Inc  
SOP

**STMPS2171MIR**

STMicroelectronics, Inc  
SO-8

**STSPIN240**

STMicroelectronics, Inc  
QFN16

**STMPS2151MIR**

STMicroelectronics, Inc  
SOP8