

Conv DC-DC 1.8V to 5.5V Synchronous Step Down Single-Out 1.8V/2.7V/3V/3.3V 0.4A 8-Pin Flip-Chip T/R



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: UFBGA

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The ST1PS01 is a nano-quiescent miniaturized synchronous step-down converter, which is able to provide up to 400 mA output current with an input voltage ranging from 1.8 V to 5.5 V. This converter is specifically designed for applications where high efficiency, PCB size and thickness are the key factors. The output voltage can be set using two digital control inputs, a V_{OUT} from 1.8 V to 3.3 V can be dynamically selected. Thanks to the enhanced PCC (peak current control) the ST1PS01 reaches very high efficiency conversion using just a 2.2 μ H inductor and two small capacitors. Advanced design circuitry is implemented to minimize the quiescent current. The device is available in Flip-Chip package.

Key Features

500 nA input quiescent current at V

IN

94% typical efficiency at 1 mA load (V

IN

OUT

100% duty cycle

1.8 V to 5.5 V input operating range

Undervoltage lockout: 1.57 V (V

IN

Up to 400 mA output current capability

Low power control operation for the best efficiency

Recommended For You

STIS14PHR

STMicroelectronics, Inc
HSOP-8

ST890CDR

STMicroelectronics, Inc
SOP-8

STWD100YNYWY3F

STMicroelectronics, Inc
SOT23-5

STC31001QT

STMicroelectronics, Inc
QFN

STM706TM6F

STMicroelectronics, Inc
SOP-8

STWD100NYWY3F

STMicroelectronics, Inc
SOT23-5

STPD01PUR

STMicroelectronics, Inc
24-QFN

STGAP2SICSNTR

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