



I2C/SMBus Interface 400kHz 3.6V 24-Pin QSOP Tube

Manufacturer: Analog Devices, Inc

Package/Case: SSOP24

Product Type: Drivers

RoHS: RoHS Compliant/Lead free

Lifecycle: Active



Images are for reference only

Inquiry

General Description

The MAX7313 I2C-compatible serial interfaced peripheral provides microprocessors with 16 I/O ports. Each I/O port can be individually configured as either an open-drain current-sinking output rated at 50mA and 5.5V, or a logic input with transition detection. A 17th port can be used for transition detection interrupt, or as a general-purpose output. The outputs are capable ofdriving LEDs, or providing logic outputs with external resistive pullup up to 5.5V.PWM current drive is integrated with 8 bits of control. Four bits are global control and apply to all LED outputs to provide coarse adjustment of current from fully off to fully on with 14 intensity steps. Each output then hasindividual 4-bit control, which further divides the globally set current into 16 more steps. Alternatively, the current control can be configured as a single 8-bit control that sets all outputs at once. Each output has independent blink timing with two blink phases. All LEDs can be individually set to be on or off during either blink phase, or to ignore the blink control. The blink period is controlled by a register. The MAX7313 supports hot insertion. All port pins, the active-low INT output, SDA, SCL, and the slave-address inputs AD0-2 remain high impedance in power-down (V+ = 0V) with up to 6V asserted upon them. The MAX7313 is controlled through the 2-wire I2C/SMBus serial interface, and can be configured to any one of 64 I2C addresses.

| Key Features | Application |
|---|-----------------------|
| Supply voltage range is 2V to 3.6V | Keypad Backlights |
| Operating temperature range from -40°C to 125°C | LCD Backlights |
| Pin and software compatible with the MAX7311, PCA9535 and PCA9555 | LED Status Indication |
| 400Kbps 2-wire serial interface, 5.5V tolerant | |
| Each output has independent blink timing with two blink phases | Notebook Computers |
| High output current of 50mA max per port | Portable Equipment |
| Standby current is 1.2μA | RGB LED Drivers |
| Controlled through 2-wire I2C/SMBus serial interface & can be configured to one of 64 I2C addresses | |
| Supports hot insertion | |

MAX7321AEE+

Analog Devices, Inc

SSOP16

MAX488ESA+

Analog Devices, Inc

SOP-8

MAX14824GTG+

Analog Devices, Inc

TQFN24

MAX5940AESA+T

Analog Devices, Inc

SOP8

MAX3120EUA+T

Analog Devices, Inc

MSOP-8

MAX9180EXT-T

Analog Devices, Inc

SC70-6

MAX14931CASE+T

Analog Devices, Inc

16-SOIC

MAX9259GCB/V+

Analog Devices, Inc

TQFP64

MAX3451EETE-T

Analog Devices, Inc

BGA

MAX3131CAI-T

Analog Devices, Inc

BGA

MAX232AEWE+

Analog Devices, Inc

SOP16

MAX7325ATG+

Analog Devices, Inc

QFN-24

MAX7319ATE+T

Analog Devices, Inc

TQFN16

MAX3452EEUD+

Analog Devices, Inc

BGA

MAX7312AUG+T

Analog Devices, Inc

TSSOP