



4-Wire-Interfaced, 2.5V to 5.5V, 20-Port and 28-Port LED Display Driver and I/O Expander

MAX6957

General Description

The MAX6957 compact, serial-interfaced LED display driver general-purpose I/O (GPIO) peripheral provides microprocessors with up to 28 ports. Each port is individually user configurable to either a logic input, logic output, or common-anode (CA) LED constant-current segment driver. Each port configured as an LED segment driver behaves as a digitally controlled constant-current sink, with 16 equal current steps from 1.5mA to 24mA. The LED drivers are suitable for both discrete LEDs and CA numeric and alphanumeric LED digits.

Each port configured as a GPIO can be either a push-pull logic output capable of sinking 10mA and sourcing 4.5mA, or a Schmitt logic input with optional internal pullup. Seven ports feature configurable transition detection logic, which generates an interrupt upon change of port logic level. The MAX6957 is controlled through an SPI™-compatible 4-wire serial interface.

The MAX6957AAX and MAX6957ATL have 28 ports and are available in 36-pin SSOP and 40-pin TQFN (6mm x 6mm) packages, respectively. The MAX6957AAI and MAX6957AII have 20 ports and are available in 28-pin SSOP and 28-pin DIP packages, respectively.

For a 2-wire interfaced version, refer to the MAX6956 data sheet.

For a lower cost pin-compatible port expander without the constant-current LED drive capability, refer to the MAX7301 data sheet.

Applications

Set-Top Boxes
Panel Meters
White Goods
Automotive
Bar Graph Displays
Industrial Controllers
System Monitoring

Typical Operating Circuit appears at end of data sheet.

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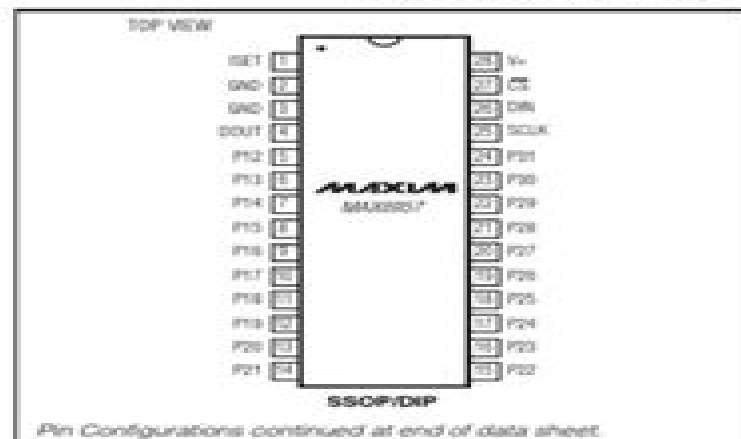
Features

- High-Speed 26MHz SPI/QSPI™/µBROWnRE™ Compatible Serial Interface
- 2.5V to 5.5V Operation
- -40°C to +125°C Temperature Range
- 20 or 28 I/O Ports, Each Configurable as Constant-Current LED Driver
Push-Pull Logic Output
Schmitt Logic Input
Schmitt Logic Input with Internal Pullup
- 11µA (max) Shutdown Current
- 16-Step Individually Programmable Current Control for Each LED
- Logic Transition Detection for Seven I/O Ports

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE	PKG CODE
MAX6957AII	-40°C to +125°C	28 DIP	N28-2
MAX6957AAI	-40°C to +125°C	28 SSOP	A28-1
MAX6957AAX	-40°C to +125°C	36 SSOP	A36-4
MAX6957ATL	-40°C to +125°C	40 Thin QFN	T4066-5

Pin Configurations



Maxim Integrated Products 1

For pricing, delivery, and ordering information, please contact Maxim/Dallas Direct! at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.

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Logistics Engineering Institution

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