

SGM6505

6-Bit, 1-of-2 Multiplexer/Demultiplexer with 1.8V Logic Compatible Control Inputs

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Datasheet

Sample

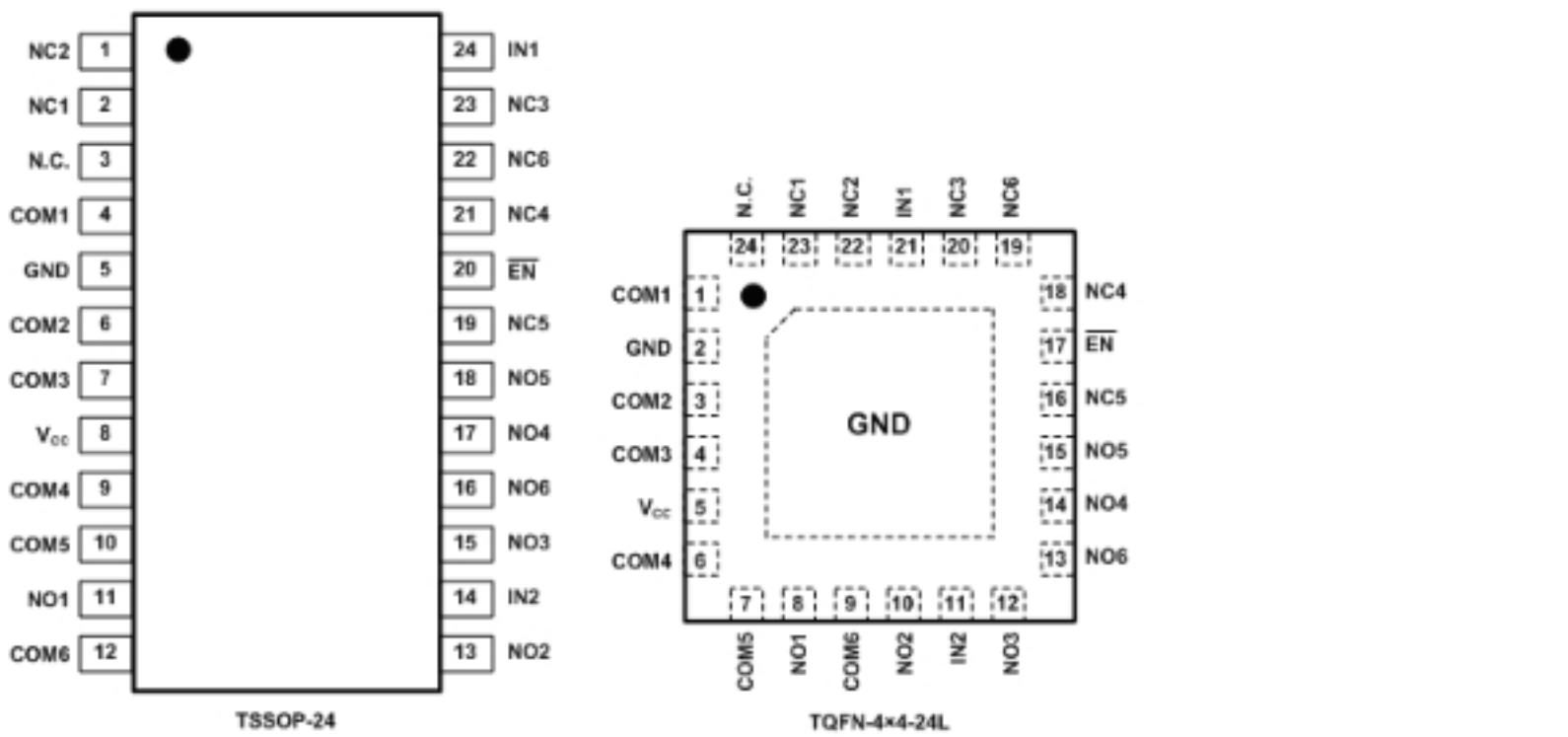
GENERAL DESCRIPTION

The SGM6505 is a 6-bit, 1-of-2 multiplexer/ demultiplexer which is designed to operate from a single 2V to 5V power supply. The SGM6505 is able to control the digital and analog signals transmission that is up to V_{cc} in any direction.

The SGM6505 contains two control pins (IN1 and IN2) and an enable pin. Each control pin separately controls three 1-of-2 multiplexers simultaneously. For the control pins, the device supports 1.8V logic threshold compatibility and backward compatibility (2.5V and 3.3V logic thresholds). When the enable pin goes to high level, all outputs are in high-impedance mode. The SGM6505 has the ability to control two different audio-video signals, which provides more flexible applications for the users.

The SGM6505 is available in Green TSSOP-24 and TQFN-4×4-24L packages. It operates over an ambient temperature range of -40°C to +85°C.

PIN CONFIGURATIONS



FEATURES

- Single-Supply Voltage Range: 2V to 5V
- Low On-Resistance: 8.5Ω (TYP) at 3V
- Low On-Capacitance: 15pF (TYP)
- 3dB Bandwidth: 450MHz
- Low Crosstalk: -55dB at 10MHz
- High Off-Isolation: -57dB at 10MHz
- Supports 1.8V Logic Control Inputs
- 40°C to +85°C Operating Temperature Range
- Available in Green TSSOP-24 and TQFN-4×4-24L Packages

APPLICATIONS

Audio and Video Switching System
Computer Peripherals
PC VGA Video MUX
SD/SDIO/MMC Expansions
LCD Monitor

ORDERING INFORMATION

Part Number	Status	Package	Pins	Pb-Free	Temp Range	
SGM6505YTS24G/TR	Production	TSSOP-24	24	Y	-40°C to +85°C	Samples
SGM6505YTQF24G/TR	Production	TQFN-4×4-24L	24	Y	-40°C to +85°C	Samples



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