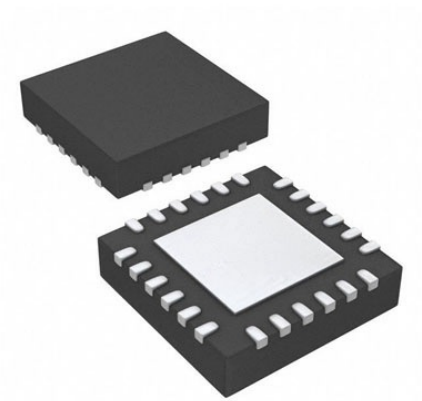


Encoders, Decoders, Multiplexers & Demultiplexers 2.5/3.3V 2:1 LVDS MUX w/ 1:2 Fanout (I Temp, Green)

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	VQFN-24
Product Type	Logic ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for SY89474UMG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SY89474U is a 2.5V precision, high-speed 2:1 differential MUX capable of processing clocks up to 2.5GHz and data up to 2.5Gbps. The differential input includes Micrel's unique, 3-pin input termination architecture that directly interfaces to any differential signal (AC- or DC-coupled) as small as 100mV (200mVPP) without any level shifting or termination resistor networks in the signal path. The output is 325mV LVDS with fast rise/fall times guaranteed to be less than 150ps. The SY89474U operates from a 2.5V  $\pm 5\%$  supply and is guaranteed over the full industrial temperature range of -40°C to +85°C. The SY89474U is part of Micrel's highspeed, Precision Edge® product line. For multiple clock switchover solutions, please refer to the SY89840U - SY89845U family.

## Features

Selects between two input channels and provides two copies of the selected input

Guaranteed AC performance over temperature and supply voltage:

DC to 2.5Gbps data throughput

DC to 2.5GHz fMAX (clock)

Unique, patent-pending input isolation design minimizes crosstalk

Ultra-low jitter design:

Unique patent-pending input termination and VT pin accepts DC- and AC-coupled inputs (CML, PECL, LVDS)

325mV LVDS output swing

2.5V  $\pm$ 5% supply voltage

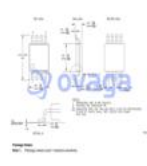
Available in 24-pin (4mm x 4mm) QFN package

## Related Products



### [SY55852UKG](#)

Microchip Technology, Inc  
MSOP-10



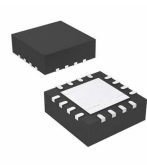
### [SY100EL16VKG](#)

Microchip Technology, Inc  
MSOP-8



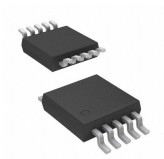
### [SY100ELT23ZG](#)

Microchip Technology, Inc  
SOIC-8



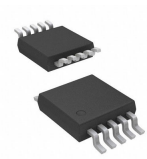
### [SY58051AUMG-TR](#)

Microchip Technology, Inc  
VQFN-16



### [SY55852UKG-TR](#)

Microchip Technology, Inc  
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)



### [SY55851AUKG-TR](#)

Microchip Technology, Inc  
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)



### [SY100EL29VZG-TR](#)

Microchip Technology, Inc  
SOIC-20



### [SY10EP05VZG-TR](#)

Microchip Technology, Inc  
SOIC-8