
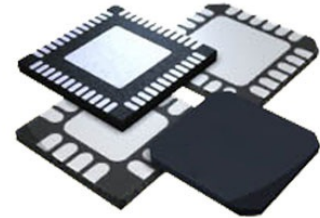


Clock Fanout Buffer 5-OUT 2-IN 1:5 32-Pin QFN EP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The SY89847U is a 2.5V, 1:5 LVDS fanout buffer with a 2:1 differential input multiplexer (MUX). A unique Fail-Safe Input (FSI) protection prevents metastable output conditions when the selected input clock fails to a DC voltage (voltage between the pins of the differential input drops significantly below 100mV). The differential input includes Micrel's unique, 3-pin internal termination architecture that can interface 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 outputs are LVDS compatible with very fast rise/fall times guaranteed to be less than 210ps. The SY89847U operates from a 2.5V $\pm 5\%$ supply and is guaranteed over the full industrial temperature range of -40°C to +85°C. The SY89847U is part of Micrel's high-speed, Precision Edge® product line.

Key Features

Selects between two sources, and provides 5 precision LVDS copies

Fail-Safe Input

Prevents outputs from oscillating when input is invalid

Guaranteed AC performance over temperature and supply voltage:

DC-to >1.5GHz throughput

Ultra-low jitter design:

150fsRMS phase jitter (typ.)

Unique, patented MUX input isolation design minimizes adjacent channel crosstalk

Unique, patented internal termination and VT pin accepts DC- and AC-coupled inputs (CML, PECL, LVDS)

Wide input voltage range VCC to GND

2.5V $\pm 5\%$ supply voltage

Available in 32-pin (5mm x 5mm) QFN package

Recommended For You

SY58017UMG

Microchip Technology, Inc
QFN

SY55855VKG

Microchip Technology, Inc
MSOP10

SY58606UMG

Microchip Technology, Inc
MLF-16

SY58608UMG

Microchip Technology, Inc
QFN16

SY100EL16VZG

Microchip Technology, Inc
SOP8

SY89547LMG

Microchip Technology, Inc
QFN-32

SY100EP15VK4G

Microchip Technology, Inc
TSSOP-16

SY100ELT22ZG

Microchip Technology, Inc
SOP8

SY58020UMG

Microchip Technology, Inc
QFN

SY100ELT22LZG

Microchip Technology, Inc
SOP-8

SY58604UMG-TR

Microchip Technology, Inc
VDFN-8

SY89854UMG

Microchip Technology, Inc
QFN

SY58012UMG

Microchip Technology, Inc
QFN

SY89473UMG

Microchip Technology, Inc
QFN-24

SY100ELT22LZG-TR

Microchip Technology, Inc
SOP8