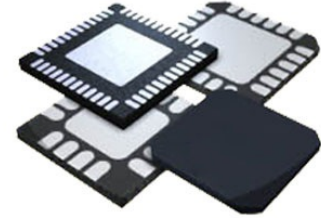


Clock Fanout Buffer 4-OUT 1-IN 1:4 16-Pin QFN EP Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: QFN

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The SY89854U is a 2.5V/3.3V precision, high-speed, fully differential 1:4 LVPECL fanout buffer. Optimized to provide four identical output copies with less than 20ps of skew and less than 10pspp total jitter, the SY89854U can process clock signals as fast as 2GHz. The differential input includes Micrel's unique, patent pending 3-pin input termination architecture that 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. For AC-coupled input interface applications, an on-board output reference voltage (VREF-AC) is provided to bias the center-tap (VT) pin. The outputs are 800mV LVPECL, with fast rise/fall times guaranteed to be less than 180ps. The SY89854U operates from a 2.5V $\pm 5\%$ supply or a 3.3V $\pm 10\%$ supply and is guaranteed over the full industrial temperature range of -40°C to $+85^{\circ}\text{C}$. The SY89854U is part of Micrel's high-speed, Precision Edge® product line.

Key Features

Precision 1:4, LVPECL fanout buffer

Low power: 137mW (2.5V typ)

Guaranteed AC performance over temperature and supply voltage:

DC- to >2GHz Clock fMAX

Ultra-low jitter design:

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

Typical 800mV (100k) LVPECL output swing

Power supply 2.5V $\pm 5\%$ or 3.3V $\pm 10\%$

Industrial temperature range -40°C to $+85^{\circ}\text{C}$

Available in ultra-small (3mm x 3mm) 16-pin 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

SY58012UMG

Microchip Technology, Inc
QFN

SY89473UMG

Microchip Technology, Inc
QFN-24

SY100ELT22LZG-TR

Microchip Technology, Inc
SOP8

SY58011UMG

Microchip Technology, Inc
QFN