SY58608UMG

Clock Fanout Buffer 2-OUT 1-IN 1:2 16-Pin QFN EP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The SY58608U is a 2.5V, high-speed, fully differential 1:2 LVDS fanout buffer optimized to provide two identical output copies with less than 20ps of skew and less than 10psPP total jitter. The SY58608U can process clock signals as fast as 2GHz or data patterns up to 3.2Gbps.The differential input includes Micrel's unique, 3-pin input termination architecture that interfaces to LVPECL, LVDS or CML differential signals, (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 integrated voltage reference (VREF-AC) is provided to bias the VT pin. The outputs are 325mV LVDS, with rise/fall times guaranteed to be less than 100ps.The SY58608U operates from a 2.5V ±5% supply and is guaranteed over the full industrial temperature range (–40°C to +85°C). For applications that require CML or LVPECL outputs, consider Micrel's SY58606U and SY58607U, 1:2 fanout buffers with 400mV and 800mV output swings respectively. The SY58608U is part of Micrel's high-speed, Precision Edge® product line.

Key Features

Precision 1:2, 325mV LVDS fanout buffer

Guaranteed AC performance over temperature and voltage:

Fail Safe Input

Ultra-low jitter design

130fsRMS typical additive phase jitter

High-speed LVDS outputs

2.5V ±5% power supply operation

Industrial temperature range: –40°C to +85°C

Available in 16-pin (3mm x 3mm) QFN package

Recommended For You

SY58017UMG

Microchip Technology, Inc

QFN

SY55855VKG

Microchip Technology, Inc

MSOP10

SY58606UMG

Microchip Technology, Inc

MLF-16

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

SY58011UMG

Microchip Technology, Inc

QFN