


Clock Fanout Buffer 8-OUT 1-IN 1:8 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 SY89202U is a precision, high-speed, integrated clock divider LVPECL fanout buffer capable of handling clocks up to 1.5GHz. Optimized for communications applications, the three independently controlled output banks are phase matched and can be configured for pass-through ($\div 1$), $\div 2$ or $\div 4$ divide ratios. The differential input includes Micrel's unique, 3-pin input termination architecture that allows the user to interface to any AC- or DC-coupled signal as small as 100mV (200mVpp) without any level shifting or termination resistor networks in the signal path. The low skew, low jitter outputs are 800mV, 100k compatible LVPECL, with extremely fast rise/fall times guaranteed to be less than 220ps. The EN (enable) input guarantees that the $\div 1$, $\div 2$ and $\div 4$ outputs will start from the same state without any runt pulse after an asynchronous MR (master reset) is asserted. This is accomplished by enabling the outputs after a four-clock delay to allow the counters to synchronize. The SY89202U is part of Micrel's Precision Edge® product family.

Key Features

- Three low-skew LVPECL output banks with programmable $\div 1$, $\div 2$ and $\div 4$ divider options
- Three independently programmable output banks
- Guaranteed AC performance over temp and voltage:
- Ultra-low jitter design:
- Internal input termination
- Patent-pending input termination and VT pin accepts AC- and DC-coupled inputs (CML, PECL, LVDS)
- 800mV LVPECL output swing
- CMOS/TTL-compatible output enable (EN) and divider select control
- Power supply 2.5V +5% or 3.3V +10%
- Available in 32-pin QFN package



Recommended For You

SY87729LHY

Microchip Technology, Inc

QFP32

SY87701ALHG

Microchip Technology, Inc

TQFP32

SY89296UMG

Microchip Technology, Inc

VQFN

SY89297UMG

Microchip Technology, Inc

QFN24

SY89295UMG

Microchip Technology, Inc

QFN

SY89874UMG

Microchip Technology, Inc

QFN

SY87700ALHG

Microchip Technology, Inc

QFP32

SY87739LHY

Microchip Technology, Inc

TQFP32

SY100EL34ZG

Microchip Technology, Inc

SOP16

SY89876LMG

Microchip Technology, Inc

QFN

SY100EP196VTG

Microchip Technology, Inc

TQFP32

SY89831UMG

Microchip Technology, Inc

QFN

SY89833ALMG

Microchip Technology, Inc

16-VFQFN

SY89297UMH

Microchip Technology, Inc

VQFN

SY87721LHG

Microchip Technology, Inc

64-TQFP