SY58034UMG

Data Sheet

6GHz, 1:6 CML FANOUT BUFFER WITH 2:1 MUX INPUT AND INTERNAL I/O TERMINATION

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-32
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for SY58034UMG or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The SY58034U is a 2.5V/3.3V precision, high-speed 1:6 fanout buffer capable of handling clocks up to 6GHz. A differential 2:1 MUX input is included for redundant clock switchover applications.The differential input includes Micrel's unique, 3-pin input termination architecture that allows the device to interface to any differential signal (AC- or DC-coupled) as small as 100mV without any level shifting or termination resistor networks in the signal path. The outputs are 50ý source terminated CML, with extremely fast rise/fall times guaranteed to be less than 60ps.The SY58034U operates from a 2.5V ±5% supply or a 3.3V ±10% supply and is guaranteed over the full industrial temperature range of -40°C to +85°C. For applications that require LVPECL outputs, consider the SY58035U or SY58036U Multiplexers. The SY58034U is part of Micrel's high-speed, Precision Edge® product line.

Features

Provides six ultra-low skew copies of the selected input

2:1 MUX input included for clock switchover applications

Guaranteed AC performance over temperature and voltage:

Clock frequency range: DC to >6GHz

Unique input isolation design minimizes crosstalk

Ultra low-jitter design:

60fs RMS phase jitter

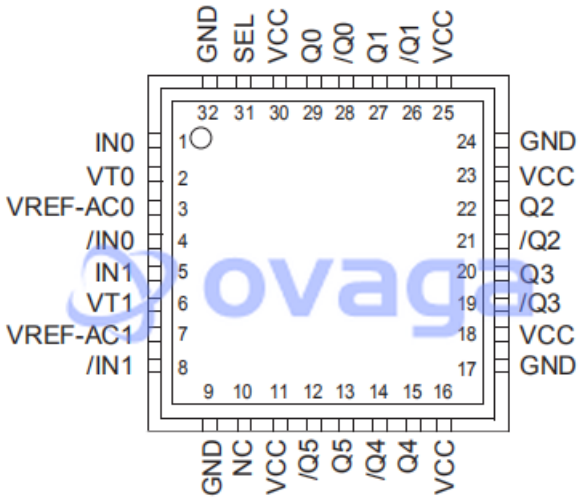
Low supply voltage operation: 2.5V and 3.3V

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

Internal 50ý output source termination

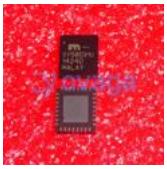
400mV CML output swing

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



32-Pin QFN

Related Products



[SY58031UMG](#)

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VQFN-32

[SY89467UHY](#)

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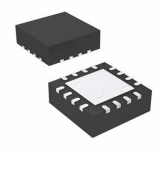
TQFP-64



[SY89833LMG](#)

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VQFN-16

[SY89838UMG](#)

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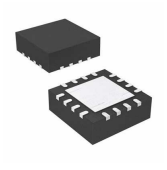
VQFN-32



[SY89872UMG](#)

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VQFN-16

[SY89826LHY](#)

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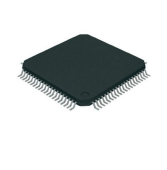

[SY89468UHY](#)

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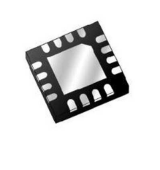

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QFN-16