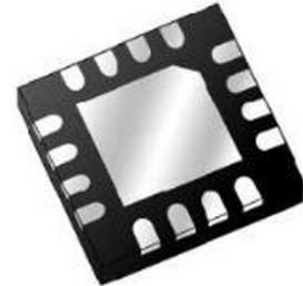


## Buffers & Line Drivers Low Voltage CML 1:2 Fanout w/ EQ

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	QFN-16
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for SY56011RMG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SY56011R is a fully differential, low voltage 1.2V/1.8V/2.5V CML 1:2 Fanout Buffer with input equalization. The SY56011R can process clock signals as fast as 4.5GHz or data patterns up to 6.4Gbps. The differential input includes Micrel's unique, 3-pin input termination architecture that interfaces to CML differential signals, without any level-shifting or termination resistor networks in the signal path. The differential input can also accept AC-coupled LVPECL and LVDS signals. Input voltages as small as 200mV (400mVpp) are applied before the 9", 18", or 27" FR4 transmission line. For AC-coupled input interface applications, an internal voltage reference is provided to bias the VT pin. The outputs are CML, with extremely fast rise/fall times guaranteed to be less than 80ps. The SY56011R operates from a 2.5V  $\pm$ 5% core supply and a 1.2V, 1.8V or 2.5V  $\pm$ 5% output supply and is guaranteed over the full industrial temperature range (-40°C to +85°C). The SY56011R is part of Micrel's high-speed, Precision Edge® product line.

## Features

1.2V/1.8V/2.5V CML 1:2 Fanout Buffer

Equalizes 9, 18, 27 inches of FR4

Guaranteed AC performance over temperature and voltage:

DC-to >6.4Gbps Data throughput

DC-to >4.5GHz Clock throughput

Ultra-low jitter design

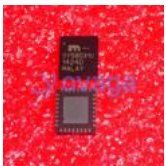
High-speed CML outputs

2.5V  $\pm$ 5% VCC, 1.2/1.8V/2.5V  $\pm$ 5% VCCO power supply operation

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

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

## Related Products



### [SY58031UMG](#)

Microchip Technology, Inc  
VQFN-32



### [SY58034UMG](#)

Microchip Technology, Inc  
VQFN-32



### [SY89838UMG](#)

Microchip Technology, Inc  
VQFN-32



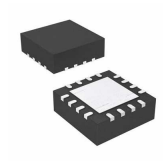
### [SY89826LHY](#)

Microchip Technology, Inc  
TQFP-64



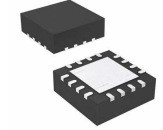
### [SY89467UHY](#)

Microchip Technology, Inc  
TQFP-64



### [SY89833LMG](#)

Microchip Technology, Inc  
VQFN-16



### [SY89872UMG](#)

Microchip Technology, Inc  
VQFN-16



### [SY89468UHY](#)

Microchip Technology, Inc  
TQFP-64