


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

Manufacturer:	<u>Microchip Technology, Inc</u>
Package/Case:	QFN
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The SY58017U is a 2.5V/3.3V precision, high-speed, 2:1 differential MUX capable of handling clocks up to 7GHz and data up to 10.7Gbps. The differential input includes Micrel's unique, 3-pin input termination architecture that allows customers 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 50Ω source terminated CML, with extremely fast rise/fall times guaranteed to be less than 60ps. The SY58017U 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 SY58018U or SY58019U Multiplexers with LVPECL outputs. The SY58017U is part of Micrel's high-speed, Precision Edge® product line.

Key Features

Guaranteed AC performance over temperature and voltage:

DC to >10.7Gbps data throughput

DC to >7GHz fMAX (clock)

Ultra-low crosstalk-induced jitter: <0.7psRMS

Ultra-low jitter design:

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

Internal 50Ω output source termination

Typical 400mV CML output swing (RL = 50Ω)

Power supply 2.5V ±5% or 3.3V ±10%

Available in 16-pin (3mm x 3mm) MLF® package



Recommended For You

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

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