


Active Programmable Delay Line 1-IN 0.01ns ABS 12.2ns MAX 32-Pin TQFP Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	TQFP32
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The SY100EP196V is a programmable delay line, varying the time a logic signal takes to traverse from IN to Q. This delay can vary from about 2.2ns to about 12.2ns. The input can be PECL, LVPECL, NECL, or LVNECL. The delay varies in discrete steps based on a control word presented to SY100EP196V. The 10-bit width of this latched control register allows for delay increments of approximately 10ps. In addition, delay may be varied continuously in about a 30ps range by setting the voltage at the FTUNE pin. An eleventh control bit allows the cascading of multiple SY100EP196V devices, for a wider delay range. Each additional SY100EP196V effectively doubles the delay range available. For maximum flexibility, the control register interface accepts CMOS or TTL level signals, as well as the input level at the IN± pins.

Key Features

Pin-for-pin, plug-in compatible to the ON Semiconductor MC100EP196

Maximum frequency >2.5GHz

Programmable range: 2.2ns to 12.2ns

10ps increments

PECL mode operating range: VCC = 3.0V to 5.5V with VEE = 0V

NECL mode operating range: VCC = 0V with VEE = -3.0V to -5.5V

Open input default state

Safety clamp on inputs

A logic high on the /EN pin will force Q to logic low

D[0:10] can accept either ECL, CMOS, or TTL inputs

VBB output reference voltage

Available in a 32-pin TQFP 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

SY89202UMG

Microchip Technology, Inc
QFN

SY89876LMG

Microchip Technology, Inc
QFN

SY89831UMG

Microchip Technology, Inc
QFN

SY89833ALMG

Microchip Technology, Inc
16-VFQFN

SY89297UMH

Microchip Technology, Inc
VQFN

SY87721LHG

Microchip Technology, Inc
64-TQFP