

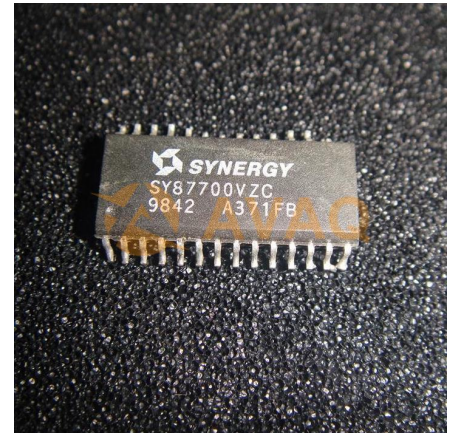
CDR SONET/SDH/ATM 3.3V/5V 28-Pin SOIC W

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP

Product Type: Clock & Timer ICs

Lifecycle: Obsolete



Images are for reference only

[Inquiry](#)

General Description

The SY87700V is a complete Clock Recovery and Data Retiming integrated circuit for data rates from 32Mbps up to 175Mbps NRZ. The device is ideally suited for SONET/SDH/ATM applications and other high-speed data transmission systems. Clock recovery and data retiming is performed by synchronizing the on-chip VCO directly to the incoming data stream. The VCO center frequency is controlled by the reference clock frequency and the selected divide ratio. On-chip clock generation is performed through the use of a frequency multiplier PLL with a byte rate source as reference. The SY87700V also includes a link fault detection circuit.

Key Features

3.3V and 5V power supply options

SONET/SDH/ATM compatible

Clock and data recovery from 32Mbps up to 175Mbps NRZ data stream, clock generation from 32Mbps to 175Mbps

Two on-chip PLLs: one for clock generation and another for clock recovery

Selectable reference frequencies

Differential PECL high-speed serial I/O

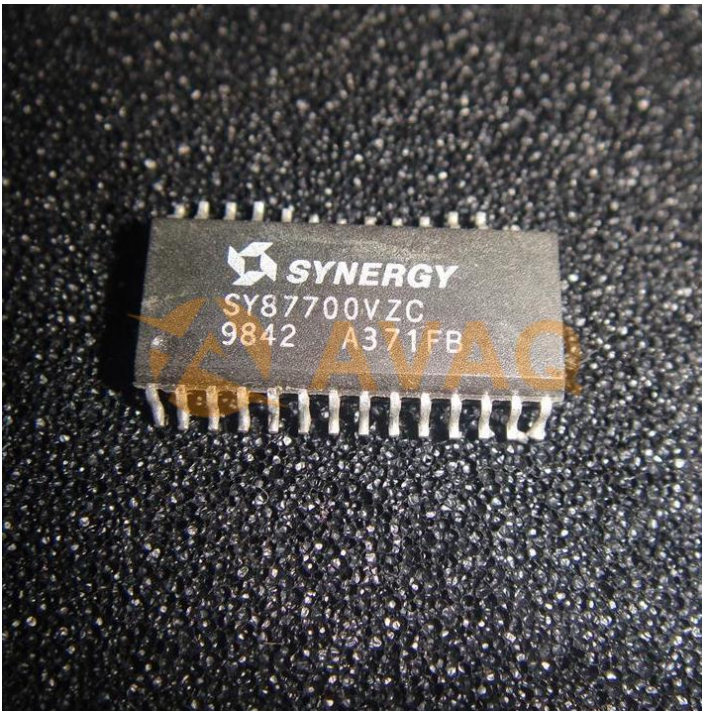
Line receiver input: no external buffering needed

Link fault indication

100k ECL compatible I/O

Complies with Bellcore, ITU/CCITT and ANSI specifications such as OC-1, OC-3, FDDI, Fast Ethernet, as well as proprietary applications

Available in 32-pin ePad-TQFP and 28-pin SOIC packages (28-pin SOIC is available, but not recommended for new designs)



Recommended For You

SY87701LHI

Microchip Technology, Inc
TQFP32

SY87700VSC

Microchip Technology, Inc
SOP28

SY87701VZC

Microchip Technology, Inc
SOP28

SY87701VHC

Microchip Technology, Inc
TQFP-32

SY87700LSI

Microchip Technology, Inc
32-TQFP

SY87701ALHI

Microchip Technology, Inc
TQFP-32

SY87701LSI

Microchip Technology, Inc
32-TQFP

SY69753LHI

Microchip Technology, Inc
QFP

SY69753LHI TR

Microchip Technology, Inc
TQFP-32

SY87700LHI

Microchip Technology, Inc
TQFP32

SY87700VHC

Microchip Technology, Inc
QFP-32

SY87721LHI

Microchip Technology, Inc
64-TQFP

SY87701LZI

Microchip Technology, Inc
SOP-28

SY87700LZI

Microchip Technology, Inc
SOP-28

AT86RF233-ZUR

Microchip Technology, Inc
QFN32