ZL30100QDG1

Clock Generator 0.008MHz to 16.384MHz-IN 65.536MHz-OUT 64-Pin TQFP Tray

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

Images are for reference only

Inquiry

General Description

The ZL30100 T1/E1 System Synchronizer contains a digital phase-locked loop (DPLL), which provides timing and synchronization for multi-trunk T1 and E1 transmission equipment.The ZL30100 generates ST-BUS and other TDM clock and framing signals that are phase locked to one of two input references. It helps ensure system reliability by monitoring its references for accuracy and stability and by maintaining stable output clocks during reference switching operations and during short periods when a reference is unavailable.The ZL30100 is intended to be the central timing and synchronization resource for network equipment that complies with Telcordia, ETSI, ITU-T and ANSI network specifications.Simplified Block DiagramTypical ApplicationsSynchronization and timing control for multi-trunk DS1/E1 systems such as DSLAMs, gateways and PBXsClock and frame pulse source for ST-BUS, GCI and other time division multiplex (TDM) busesLine Card synchronization for PDH system

Key Features

Supports Telcordia GR-1244-CORE Stratum 4 and Stratum 4E

Supports ITU-T G.823 and G.824 for 2048 kbps and 1544 kbps interfaces

Supports ANSI T1.403 and ETSI ETS 300 011 for ISDN primary rate interfaces

Simple hardware control interface

Accepts two input references and synchronizes to any combination of 8 kHz, 1.544 MHz, 2.048 MHz, 8.192 MHz or 16.384 MHz inputs

Provides a range of clock outputs: 1.544 MHz, 2.048 MHz, 16.384 MHz and either 4.096 MHz and 8.192 MHz or 32.768 MHz and 65.536 MHz

Provides 5 styles of 8 kHz framing pulses

Holdover frequency accuracy of 1.5 x 10-7

Lock, Holdover and selectable Out of Range indication

Selectable loop filter bandwidth of 1.8 Hz or 922 Hz

Less than 0.5 nspp jitter on all output clocks

External master clock source: clock oscillator or crystal

Application

Synchronization and timing control for multi-trunk DS1/E1 systems such as DSLAMs, gateways and PBXs

Clock and frame pulse source for ST-BUS, GCI and other time division multiplex (TDM) buses

Line Card synchronization for PDH system

Recommended For You

ZL30343GGG2

Microchip Technology, Inc

BGA100

ZL40213LDG1

Microchip Technology, Inc

QFN

ZL30143GGG2

Microchip Technology, Inc

BGA

ZL30105QDG1

Microchip Technology, Inc

TQFP64

ZL40200LDF1

Microchip Technology, Inc

VQFN

ZL30122GGG2

Microchip Technology, Inc

BGA64

ZL40200LDG1

Microchip Technology, Inc

VQFN-16

ZL40202LDG1

Microchip Technology, Inc

new

ZL30106QDG1

Microchip Technology, Inc

QFP64

ZL30266LDG1

Microchip Technology, Inc

VQFN

ZL40231LDG1

Microchip Technology, Inc

VQFN-48

ZL30157GGG2

Microchip Technology, Inc

LBGA

ZL30250LDG1

Microchip Technology, Inc

QFN

ZL40223LDG1

Microchip Technology, Inc

VQFN-32

ZL30117GGG2

Microchip Technology, Inc

BGA