
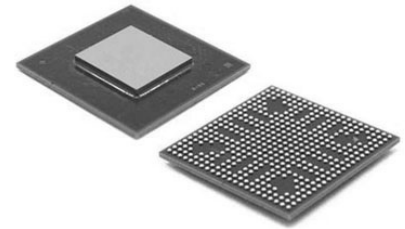


CDR SONET/SDH 3.63V 24-Pin LFCSP EP Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	LFCSP
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The ADN2915 provides the receiver functions of quantization, signal level detect, and clock and data recovery for continuous data rates from 6.5 Mbps to 11.3 Gbps. The ADN2915 automatically locks to all data rates without the need for an external reference clock or programming. ADN2915 jitter performance exceeds all jitter specifications required by SONET/SDH, including jitter transfer, jitter generation, and jitter tolerance. The ADN2915 provides manual or automatic slice adjust and manual sample phase adjusts. Additionally, the user can select a limiting amplifier, equalizer, or bypass at the input. The equalizer is either adaptive or can be manually set. The receiver front-end loss of signal (LOS) detector circuit indicates when the input signal level has fallen below a user-programmable threshold. The LOS detect circuit has hysteresis to prevent chatter at the LOS output. In addition, the input signal strength can be read through the I²C registers. The ADN2915 also supports pseudorandom binary sequence (PRBS) generation, bit error detection, and input data rate readback features. The ADN2915 is available in a compact 4 mm × 4 mm, 24-lead chip scale package (LFCSP). All ADN2915 specifications are defined over the ambient temperature range of -40°C to +85°C, unless otherwise noted.

Key Features

- Serial data input: 6.5 Mbps to 11.3 Gbps
- No reference clock required
- Exceeds SONET/SDH requirements for jitter transfer/generation/tolerance
- Quantizer sensitivity: 7.3 mV typical (limiting amplifier mode)
- Optional limiting amplifier, equalizer, and bypass inputs
- Programmable jitter transfer bandwidth to support G.8251 OTN
- Programmable slice level
- Sample phase adjust (5.65 Gbps or greater)
- Output polarity invert
- See data sheet for additional features

Application

- SONET/SDH OC-1/OC-3/OC-12/OC-48/OC-192 and all associated FEC rates
- 1GFC, 2GFC, 4GFC, 8GFC, 10GFC, 1GE, and 10GE
- WDM transponders
- Any rate regenerators/repeaters

Recommended For You

AD9517-3BCPZ

Analog Devices, Inc
QFN

AD9954YSV

Analog Devices, Inc
QFP

ADCLK914BCPZ-WP

Analog Devices, Inc
LFCSP-16

AD7008JP50

Analog Devices, Inc
PLCC44

AD9952YSV

Analog Devices, Inc
QFP

AD9516-3BCPZ

Analog Devices, Inc
QFN

ADCLK944BCPZ-R2

Analog Devices, Inc
LFCSP16

AD9577BCPZ

Analog Devices, Inc
LFCSP-40

AD9543BCPZ

Analog Devices, Inc
LFCSP-48

AD9853AS

Analog Devices, Inc
QFP

ADN2805ACPZ

Analog Devices, Inc
LFCSP

AD9515BCPZ-REEL7

Analog Devices, Inc
LFCSP-32

ADN2807ACPZ

Analog Devices, Inc
48-LFCSP

AD9520-4BCPZ

Analog Devices, Inc
LFCSP

AD9831AST

Analog Devices, Inc
QFP