



Integrated Device Technology

The Analog and Digital Company™



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Clock / Timing Devices | Clock Distribution | Zero Delay Buffers (PLL) | **8792502I** | 8792502AKILF

8792502AKILF

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DESCRIPTION

2 OUT LVPECL LVDS FREQ TRANSLATOR

The ICS8792502I is a programmable two output device that can either provide LVDS or LVPECL output levels. This frequency translator can convert Ethernet frequencies to SONET frequencies and SONET frequencies to Ethernet frequencies. It is a member of the HiPerClockS™ family of High Performance Clock Solutions from IDT. ICS8792502I can accept 19.44MHz, 25MHz, 62.5MHz, 77.76MHz, 155.52MHz, 156.25MHz, 311.04MHz, 312.5MHz, 622.08MHz or 625MHz frequencies and convert them to any other frequency in the list. Fully differential architecture and low phase noise make it ideal for use in Networking applications.

Features

- High-speed SONET to Ethernet and Ethernet to SONET frequency converter
- Two differential LVPECL or LVDS output pairs
- Selectable crystal or differential clock inputs
- Maximum output frequency: 625MHz
- RMS phase jitter @ 155.52MHz (12kHz – 20MHz): TBD
- Full 3.3V or 2.5V supply modes
- 40°C to 85°C ambient operating temperature
- Available in both standard (RoHS 5) and lead-free (RoHS 6) packages Table

Generic Part:

8792502I

Category:

[Zero Delay Buffers \(PLL\)](#)

PARAMETERS

Package	VFQFPN 32
Voltage	3.3 V
Temperature	I
Speed	NA
Divide Value	(19.44 ÷ 25) * M/N
Input Style	Xtal
Max. Input Frequency	627.9355
Min. Input Frequency	19.3466
No. of Outputs	2
Output Frequency	625
Output Style	LVPECL or LVDS
Core Supply Voltage (VDD)	
Min. Output Frequency	
Output Supply Voltage (VDDO)	
No. of Inputs	
Max. Output Frequency	
Temp. Grade	
Multiplication/Divide Value	

PACKAGE

Package	VFQFPN 32 (NLG32)
Description	VFQFP-N 5 X 5 X 1.0MM NO LEAD
Status	Active
Class	PLASTIC
Category	Green
Pb (Lead) Free	Yes
Pb Free Category	e3 Sn
Mark	K
Package Type	VFQFPN
Lead Count	32
Length	5.0 mm
Width	5.0 mm
Thickness	1.0 mm
Pitch	0.5 mm
Tube / Tray	TRAY
Quantity per Tube/Tray	490
Quantity per Reel	2500
Moisture Sensitivity Level (MSL)	3
Moisture Exposure	168 hrs @ <30C/60%

Floor Life RH
Peak Reflow Temperature 260°C
Rebake Conditions 48hrs@125C
Related Package Documents [view documents](#)

DISTRIBUTOR INVENTORY

Part	Distributor	Qty	Date	RFQ	Order
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No matches found.

CONTACTS

Sales Offices

▶ [Sales Offices and authorized distributors](#)

Technical Support

Clock Help

▶ [WWW: Clock Help](#)