

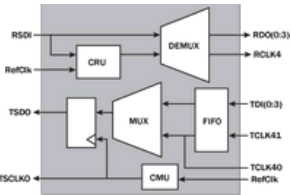
PRODUCTS

Legacy

Ethernet Switching
Physical Layer
Software
Intellectual Property
Signal Integrity
Legacy

Multirate 4-Bit with CRU and CMU

The VSC8145 is an extended multi-rate transceiver with integrated clock recovery unit (CRU) and clock multiplier unit (CMU) for use in SONET/SDH, DWDM, and other optical transport systems. The device performs all required serialization and deserialization functions for OC-48, OC- 12, OC-3, FEC, Gigabit Ethernet, Fibre Channel and FDDI/Fast Ethernet data rates. The integrated CRU Phase Locked Loop (PLL) recovers the high-speed clock from the input Non-Return to Zero (NRZ) data signal. The integrated CMU PLL multiplies a low-speed reference clock to provide the high-speed serial line clock for internal logic and output retiming. This device is available in commercial and industrial temperature ranges.



Product Variants	Description
VSC8145VQ-03	[Discontinued] 156-pin 21 x 21 mm TBGA, -5 °C to 70 °C
VSC8145XVQ-03	[Discontinued] 156-pin 21 x 21 mm TBGA lead-free second-level interconnect, -5 °C to 70 °C
VSC8145VQ-04	[Discontinued] 156-pin 21 x 21 mm TBGA, -40 °C to 85 °C
VSC8145XVQ-04	[Discontinued] 156-pin 21 x 21 mm TBGA lead-free second-level interconnect, -40 °C to 85 °C

— Key Features

- OC-48/-12/-3, FEC, GbE, Fibre channel and other data rates
- Integrated clock recovery and clock multiplier units
- Wide ranging PLLs with bypass capabilities
- Low-speed bit order swap (MSB/LSB)

+ Applications

+ Related Products

ADDITIONAL RESOURCES

Add to Cart	Category	Title	Access	Version	Posted	Type	Size
<input type="checkbox"/>	Product Brief	VSC8142, VSC8145, and VSC8147 Product Brief		1.0	01/17/2005		154 kB
<input type="checkbox"/>	Datasheet	VSC8145 Data Sheet		4.0	02/19/2004		317 kB
<input type="checkbox"/>	Datasheet	VSC8145-03 and VSC8145-04 Datasheet		4.1	04/11/2011		709 kB
<input type="checkbox"/>	Application Note	VSC8145, VSC8146 and VSC8147 SONET/SDH Transceiver Family Comparison		1.0	10/25/2007		79 kB
<input type="checkbox"/>	User Guide	VSC8145 SFP Evaluation Board		1.0	01/04/2008		396 kB
<input type="checkbox"/>	Reports	VSC8145VQ-03 and VSC8145VQ-04 Material Composition Declaration - Amkor		3.0	06/07/2013		22 kB
<input type="checkbox"/>	Reports	VSC8145XVQ-03 and VSC8145XVQ-04 Material Composition Declaration - Amkor		3.0	06/11/2013		22 kB
<input type="checkbox"/>	Reports	First Level Product Qualification Report for VSC8145VQ-03		1.0	07/30/2010		62 kB
<input type="checkbox"/>	Reports	First Level Product Qualification Report for VSC8145VQ-04		1.0	03/18/2009		26 kB
<input type="checkbox"/>	Reports	First Level Product Qualification Report VSC8145XVQ-04		1.0	03/19/2009		26 kB

Download Documents

View Download Cart

