



**THE DATASHEET OF
VSC7145RU-34/C**



VSC7145

VITESSE

VSC7145 - Dual Speed 10-bit Serializer/Deserializer



FEATURES:

- ▶ Dual Speed Operation:
 - Fibre Channel: 1.06/2.12Gb/s
 - Gigabit Ethernet: 1.25Gb/s
 - InfiniBand™: 2.5Gb/s
- ▶ 10-bit, SSTL_2 or SSTL_3 Interface
- ▶ HSPI Interface Compliant
- ▶ ASIC-Friendly™ Timing to the Transmitter
- ▶ Separate Transmitter/Receiver Rate Controls support Auto Speed Negotiation
- ▶ No Passives needed on High Speed Signals
- ▶ On-chip, 100 Ohm Termination
- ▶ Write Pre-Emphasis in Transmitter
- ▶ Cable Equalization in Receiver
- ▶ Analog/Digital Signal Detection
- ▶ Flexible Reference Clock
- ▶ Single 3.3V Supply, 800mW
- ▶ 64-pin, 14 mm PQFP Package
- ▶ Pin Compatible to Agilent HDMP-263x

SPECIFICATIONS:

- ▶ Data Rate: 1.0 - 2.5 Gb/s
- ▶ REFCLK: 52.5 to 126 MHz
- ▶ Frequency Offset: +/-200 ppm
- ▶ Fast Locking: <300 data edges
- ▶ Transmitter Output: 1.0V p-p Minimum
- ▶ Receiver Input: 200mV p-p Minimum
- ▶ 3.3V +/- 5% Supply
- ▶ 0° - 70°C Ambient Operation

APPLICATIONS:

- ▶ Fibre Channel
 - Host Adapters
 - Hubs/Switches
 - RAID systems
- ▶ Gigabit Ethernet
 - NICs
 - Switches
 - Proprietary Uplinks
- ▶ InfiniBand
 - Host Channel Adapters
 - Target Channel Adapters
 - Switches
- ▶ Proprietary Serial Links

PRODUCT OPTIONS:

Part Number	Low Speed I/O	Speed (Gb/s)	HS Termination	Compatibility
VSC7145RU-30	SSTL_2	1.05 - 1.26 (Half Speed)	100 Ohms	Agilent HDMP-2630
VSC7145RU-31	SSTL_3	or 2.10 - 2.52 (Full Speed)		Agilent HDMP-2631
VSC7145RU-34	SSTL_2			Agilent HDMP-2634

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