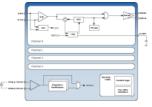
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Multirate 14.5 Gbps or 11.5 Gbps 4-Channel Adaptive Channel Extender with **All-Rate CRU**

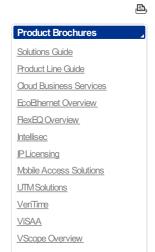


The Vitesse VSC7224 device is a quad unidirectional lane adaptive channel extender with a CRU. It incorporates input equalization, clock and data recovery, and output de-emphasis. It operates at data rates from 155 Mbps to 14.1 Gbps. The VSC7224 device is a simple-to-use copper media receiver and driver that provides electrical compensation to cable, copper, and backplane environments to increase system margin and media driving distances. It equalizes greater than 30 inches of FR-4 at 10 Gbps and greater than 10 m of 24AWG of SFP+ copper direct-attached cable at 10 Gbps. The VSC7224 device can be used either on its own or with an external microcontroller to control, monitor, and enhance system performance. The VSC7224 device uses advanced technology to equalize deteriorated input signals while dissipating the lowest possible power. A

low-cost 25 MHz crystal, along with an on-chip frequency synthesizer, allows for CRU operation at any data rate. Its three-tap FIR output driver architecture enables up to 20 dB of de-emphasis. The VSC7224 device includes Vitesse's patented VScope input signal monitoring integrated circuit signal monitoring and waveform viewing technology. The device operates on a single supply of 1.2 volts.

Product Variants	Description
VSC7224XJV	14.5 Gbps operation, 48-pin 5 x 9 mm QFN lead-free second-level interconnect
VSC7224XJV-01	11.5 Gbps operation, 48-pin 5 x 9 mm QFN lead-free second-level interconnect

Add to Cart	Category	Title	Access	Revision	Posted	Туре	Size
	Product Brief	VSC7224 Product Brief	3	1.0	07/18/2011	7	953 kB
	Datasheet	VSC7224 Datasheet	<u>_</u>	2.5	06/06/2013	7.	838 kB
	Datasheet	VSC7224-01 Datasheet	<u>_</u>	4.0	04/01/2013	7.	818 kB
	Errata	VSC7224 Errata	<u>_</u>	1.2	01/17/2013	7	61 kB
	Application Note	Migrating from VSC7224 Revision B to Revision C	<u>_</u>	1.0	01/18/2013	7	106 kB
	Application Note	VSC7224 Clock Configuration	<u>_</u>	1.0	03/16/2012	٨	75 kB
	Application Note	VSC7224 Design Guide	<u>_</u>	1.0	10/11/2012	7.	146 kB
	Evaluation System	VSC7224 Evaluation System Schematic, Layout, and BOM	<u>_</u>	В	10/05/2011	i	1 MB
	Evaluation System	VSC7224 QSFP+ Evaluation System Schematic, Layout, and BOM	<u>_</u>	1.0	06/13/2012	<u>i</u>	5 MB
	User Guide	VSC7223, VSC7224, and VSC7224-01 Evaluation Board	<u>_</u>	3.0	01/18/2013	<u></u>	1 MB
	User Guide	VSC7224 QSFP+ Evaluation Board User Guide	<u>_</u>	1.0	05/10/2012	<u></u>	889 kB
	Model	VSC7224 IBIS-AMI Model	<u>_</u>	1.8	07/10/2012	1	4 MB
	Reference Design	VSC7224 Orcad Library	<u>_</u>	1.0	10/01/2012	1	175 kB
	Software	VSC7224 GUI	<u>_</u>	2.0	12/13/2012	1	6 MB
	Software	VSC7224 QSFP+ Evaluation Board GUI	<u>_</u>	2.0	12/13/2012	Į,	950 kB
	Reports	VSC7223XJV, VSC7224XJV, VSC7224XJV-01 Material Composition Declaration	<u>_</u>	3.0	02/13/2013	7	21 kB











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Reports	First Level Product Qualification Report for VSC7224XJV-01	<u>_</u>	1.0	02/08/2013	7	74 kB



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