

## Signal Integrity and Switching

### Signal Conditioners and Retimers

VSC3406	6.375 Gbps 4 × 4 Quad Signal Conditioner with VScope™
VSC7104	6.5 Gbps 4 × 4 Quad Signal Conditioner
VSC7108	6.5 Gbps 8 × 8 Octal Signal Conditioner
VSC8228	Dual Channel Multirate Signal Conditioner and Retimer
VSC8238	8.5 Gbps to 12 Gbps EDC CDR
VSC8240	10 Gbps and 1 Gbps Clock and Data Recovery IC with EDC and VScope™
VSC8242	Dual Port 10 Gbps and 1 Gbps SFI Clock and Data Recovery IC with EDC and VScope™

### Crosspoint Switches

VSC3104	6.5 Gbps 4 × 4 Crosspoint Switch
VSC3304	8.5 Gbps 4 × 4 Crosspoint Switch
VSC3008	11 Gbps 8 × 8 Crosspoint Switch
VSC3108	6.5 Gbps 8 × 8 Crosspoint Switch
VSC3208	150 Mbps to 4.25 Gbps 8 × 8 Synchronous CDR Crosspoint Switch
VSC3312	6.5 Gbps 12 × 12 Crosspoint Switch
VSC3212	150 Mbps to 4.25 Gbps 12 × 12 Synchronous CDR Crosspoint Switch
VSC3172	6.5 Gbps 72 × 72 Crosspoint Switch
VSC3144	6.5 Gbps 144 × 144 Crosspoint Switch

## Backplanes

### Backplane Transceivers

VSC3406	125 Mbps to 6.375 Gbps 2:1 Mux/Demux 4-Channel Backplane Transceiver with VScope™
VSC3441 <b>NEW</b>	125 Mbps to 6.375 Gbps Multirate 8-Channel Transceiver with VScope™
VSC7280	Dual XAUI and Dual XGMII Octal 3.25 Gbps Transceiver
VSC7281	Dual XAUI and Single XGMII Quad 3.25 Gbps Transceiver
VSC9180	2.5 Gbps SONET/SDH/OTN Backplane Transceiver

### EDC for Backplanes

VSC8238	8.5 Gbps to 12 Gbps EDC CDR
VSC8242	Dual Port 10 Gbps and 1 Gbps SFI Clock and Data Recovery IC with EDC and VScope™

## Ethernet

### EDC for SFP+ Line Cards

VSC8242	Dual Port 10 Gbps and 1 Gbps SFI Clock and Data Recovery IC with EDC and VScope™
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### 10GE PHYs

VSC8479-01 <b>NEW</b>	9.9 Gbps to 11.3 Gbps OC-192/FEC and 10GE 16-Bit Transceiver, Smaller Package
VSC8479	9.9 Gbps to 11.3 Gbps OC-192/FEC and 10GE 16-Bit Transceiver
VSC8486-10 <b>NEW</b>	10GE XAUI to XFI LAN/WAN Transceiver, Smaller Package
VSC8486	10GE XAUI or XGMII to XFI LAN/WAN Transceiver

### 1GE PHYs

VSC8211	Single Port 10/100/1000BASE-T PHY, 1000BASE-X, and 100BASE-FX PHY with SGMII, SerDes, GMII, MII, TBI, RGMII/RTBI
VSC8221	Single Port 10/100/1000BASE-T PHY with 1.25 Gbps SerDes/SGMII for Copper SFPs/GBICs
VSC8601	10/100/1000BASE-T PHY with RGMII MAC Interface

VSC8641 <b>NEW</b>	10/100/1000BASE-T PHY with RGMII and GMII MAC Interface
VSC8224	Quad Port 10/100/1000BASE-T and 1000BASE-X PHY with RGMII and RTBI MAC Interfaces
VSC8234	Quad Port 10/100/1000BASE-T PHY with SGMII and SerDes MAC Interfaces
VSC8244	Quad Port 10/100/1000BASE-T PHY with RGMII/RTBI MAC Interfaces
VSC8664	Quad Port 10/100/1000BASE-T PHY and 100BASE-FX/1000BASE-X SerDes with 2-wire Serial Interface Mux and Recovered Clock Outputs
VSC8634	Quad Port 10/100/1000BASE-T PHY with SGMII MAC Interface
VSC8538	Octal Port 10/100/1000BASE-T PHY with SGMII MAC Interface
VSC8558	Octal Port 10/100/1000BASE-T and 1000BASE-X PHY with SGMII MAC Interface
VSC8658	Octal 10/100/1000BASE-T PHY and 100BASE-FX/1000BASE-X SerDes with SGMII MAC Interface

### Ethernet Switches

VSC7384	Stansted™: 12-Port 10/100/1000 L2 Switch
VSC7401 <b>NEW</b>	SparX-II-16™: 16-Port L2 Ethernet Switch with V-Core II™ CPU
VSC7405 <b>NEW</b>	SparX-II-24™: 24-Port L2 Ethernet Switch with V-Core II™ CPU
VSC7407	E-StaX-34™: 24 × 1-Gigabit and 4 × 2.5 Gbps L2 Ethernet Switch with Low-Cost Stacking/V-StaX™ and V-Core II™ CPU
VSC7310-01	Gatwick-le™: 24-Port 10/100/1000 and 2-Port 10 Gbps Wire-Speed Stackable L2/L3 Ethernet Switch
VSC7376	HawX-G26™: 26-Port 10/100/1000 Managed L2 Ethernet Switch
VSC7501	G-RocX™: 4 + 2-Port Router-on-a-Chip Switch with Transceivers, Hardware NAT Engine, ACL/QCL, and ARM9® CPU Core
VSC7385	SparX-G5™: 5-Port Integrated Gigabit Ethernet Switch with V-Core I™ CPU
VSC7395	SparX-G5e™: Enhanced 5 + 1-Port Integrated Gigabit Ethernet Switch with Transceivers and V-Core I™ CPU
VSC7388	SparX-G8™: 8-Port Integrated Gigabit Ethernet Switch with V-Core I™ CPU
VSC7398	SparX-G8e™: Enhanced 8-Port Integrated Gigabit Ethernet Switch with Transceivers and V-Core I™ CPU
VSC7398-01 <b>NEW</b>	SparX-G8um™: Unmanaged 8-Port Gigabit Ethernet Switch with Transceivers and V-Core I™ CPU
VSC7389	SparX-G16™: 16-Port Integrated L2 Gigabit Ethernet Smart Switch with Transceivers and V-Core I™ CPU
VSC7391	SparX-G16r™: 16-Port Integrated L2 Gigabit Ethernet Smart Switch with Transceivers and V-Core I™ CPU
VSC7390	SparX-G24™: 24-Port Integrated L2 Gigabit Ethernet Smart Switch with Transceivers and V-Core I™ CPU

### Ethernet MACs

VSC7323	Meigs-Ile™: 10 × 1GE and 10GE MAC with SPI-4.2
VSC7331	Campbell-I™: Multiprotocol WAN MAC with SPI-4.2
VSC7344	Barrington-II™: 24 × 10/100/1000 and 2 × 10 Gbps Ethernet MAC with SPI-4.2 and XAUI Host Interfaces
VSC7346	Schaumburg-II™: 12 × 10/100/1000 and 1 × 10 Gbps Ethernet MAC with SPI-4.2 and XAUI Host Interfaces
VSC7350	eXEC1™: 2 × 10 Gbps Ethernet MAC with XAUI Interfaces

### Ethernet Routers

VSC7501	G-RocX™: 4 + 2-Port Router-on-a-Chip Switch with Transceivers, Hardware NAT Engine, ACL/QCL, and ARM9® CPU Core
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## Fiber-to-the-Home

### Devices for OLT

VSC7716	1.25 Gbps Burst-Mode Transimpedance Amplifier for GE-PON (EPON) Systems
VSC7718	GPON and GE-PON OLT Transimpedance Amplifier
VSC7728	GPON and GE-PON OLT Limiting Post Amplifier
VSC7961	3.125 Gbps Limiting Post Amplifier (PECL)
VSC7939	3.125 Gbps Laser Driver with 60mA Modulation
VSC7940	3.125 Gbps Laser Driver with 100mA Modulation
VSC7981	9.9 Gbps to 11.3 Gbps 25 Ω DML Driver
VSC7982	9.9 Gbps to 11.3 Gbps 50 Ω DML/EML Driver
VSC7984	12.5 Gbps EML Driver

### Devices for ONU

VSC7878	10 Gbps Linear Transimpedance Amplifier
VSC7970	2.5 Gbps Optical Receiver with Inverting Output
VSC7971	2.5 Gbps Optical Receiver with Non-Inverting Output
VSC7978	9.9 Gbps to 11.3 Gbps Transimpedance Amplifier
VSC7965	PON Integrated 155 Mbps to 1.25 Gbps Burst-Mode Laser Driver and Limiting Amplifier
VSC7967	PON Integrated 155 Mbps to 2.5 Gbps Burst-Mode Laser Driver and Limiting Amplifier
VSC7987	10 Gbps Multirate Limiting Post Amplifier

### Routers, Ethernet Switches and PHYs for PON

VSC7501	G-Roc™: 4 + 2-Port Router-on-a-Chip Switch with Transceivers, Hardware NAT Engine, ACL/QCL, and ARM9® CPU Core
VSC7395	SparX-G5e™: Enhanced 5 + 1-Port Integrated Gigabit Ethernet Switch with Transceivers and V-Core I™ CPU
VSC8142	Multirate 16-Bit Transceiver with CRU and CMU
VSC3441	125 Mbps to 6.375 Gbps 8-Channel Transceiver with VScope™
VSC8479-01 <b>NEW</b>	9.9 Gbps to 11.3 Gbps OC-192/FEC and 10GE 16-Bit Transceiver, Smaller Package
VSC8641	10/100/1000BASE-T PHY with RGMII and GMII MAC Interface

## Optical Module Solutions

### Laser Drivers

VSC5529	9.9 Gbps to 12.5 Gbps NRZ LiNbO3 Modulator Driver
VSC7939	3.125 Gbps Laser Driver with 60mA Modulation
VSC7940	3.125 Gbps Laser Driver with 100mA Modulation
VSC7964	1 Gbps to 4.25 Gbps Integrated VCSEL Driver and Limiting Post Amplifier
VSC7966	155 Mbps to 1.25 Gbps Laser Driver and Limiting Post Amplifier
VSC7980	9.9 Gbps to 11.3 Gbps 50 Ω VCSEL Driver
VSC7981	9.9 Gbps to 11.3 Gbps 25 Ω DML Driver
VSC7982	9.9 Gbps to 11.3 Gbps 50 Ω DML/EML Driver
VSC7984	12.5 Gbps EML Driver
VSC7985 <b>NEW</b>	10.3 Gbps VCSEL Driver
VSC7986 <b>NEW</b>	155 Mbps to 10.3 Gbps DML Driver

### Limiting Post Amplifiers

VSC7959	3.125 Gbps Limiting Post Amplifier (CML)
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VSC7961	3.125 Gbps Limiting Post Amplifier (PECL)
VSC7987	10 Gbps Multirate Limiting Post Amplifier

### SONET/SDH PHYs for Optical Modules

VSC1235	9.9 Gbps to 12.6 Gbps OC-192/FEC 16-Bit Multiplexer with CMU
VSC1236	9.9 Gbps to 12.6 Gbps OC-192/FEC 16-Bit Demux with CRU
VSC1237	9.9 Gbps to 12.5 Gbps OC-192/FEC 16-Bit Multiplexer with CMU
VSC1238	9.9 Gbps to 12.5 Gbps OC-192/FEC 16-Bit Demux with CRU
VSC8479-01 <b>NEW</b>	9.9 Gbps to 11.3 Gbps OC-192/FEC and 10GE 16-Bit Transceiver, Smaller Package

### EDC for Optical Modules

VSC8238	8.5 Gbps to 12 Gbps EDC CDR
VSC8240	10 Gbps and 1 Gbps Clock and Data Recovery IC with EDC and VScope™

### Transimpedance Amplifiers

VSC7770	1 Gbps to 4.25 Gbps Transimpedance Amplifier with Photocurrent Monitor
VSC7771	1 Gbps to 4.25 Gbps Transimpedance Amplifier with Photocurrent Monitor
VSC7977	1.25 Gbps Optical Receiver
VSC7977-01	1 Gbps to 4.25 Gbps Multirate Optical Receiver with Bandwidth Select
VSC7970	2.5 Gbps Optical Receiver with Inverting Output
VSC7971	2.5 Gbps Optical Receiver with Non-Inverting Output
VSC7978	9.9 Gbps to 11.3 Gbps Transimpedance Amplifier
VSC7878	10 Gbps Linear Transimpedance Amplifier
VSC7979	10.6 Gbps to 12.5 Gbps TIA 3 KΩ with Photocurrent Monitor and Input Slicing Adjust
VSC7999	10.6 Gbps to 12.5 Gbps TIA 9 KΩ with Photocurrent Monitor and Input Slicing Adjust
VSC7997	10.7 Gbps 5 KΩ Transimpedance Amplifier
VSC7998	10.7 Gbps 1.4 KΩ Transimpedance Amplifier

## Telecom

### Forward Error Correction

VSC6134	10 Gbps Digital Wrapper FEC with STS-192 PM/10GE PM
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### Ethernet over SONET (EoS) Mappers

VSC9125	HOVCAT48e™: Enhanced 2.5 Gbps Multi-Service SONET/SDH EoS Mapper
VSC9128	HOVCAT192e™: Enhanced 10 Gbps Multi-Service SONET/SDH EoS Mapper
VSC9135	LOVCAT48™: 2.5 Gbps Multi-Service Low-Order EoS Mapper
VSC9138	LOVCAT192™: 10 Gbps Multi-Service Low-Order EoS Mapper

### SONET/SDH PHYs for Telecom

VSC8115 <b>NEW</b>	CDR for SONET/SDH with LVDS or LVPECL Data Output
VSC8142	Multirate 16-Bit Transceiver with CRU and CMU
VSC8145	Multirate 4-Bit Transceiver with CRU and CMU
VSC8479	9.9 Gbps to 11.3 Gbps OC-192/FEC and 10GE 16-Bit Transceiver

### Time Slot Interchangers (TSI)

VSC9191	100 Gbps (40 × 40) SONET/SDH TSI Switch with Dual Rate I/O
VSC9295	340 Gbps (136 × 136) SONET/SDH TSI Switch