

VSC7558TSN

200G Industrial Ethernet Switch

Status: In Production.

[Download Data Sheet](#) [Documentation](#) [Symbols](#)

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The VSC7558TSN SparX-5i-200 is a 200 Gbps Industrial Ethernet Switch supporting a combination of 1G, 2.5G, 5G, 10G, and 25G Ethernet ports.

The device provides a rich set of Industrial Ethernet switching features including the complete TSN feature set, L2 switching, L3 routing, seamless redundancy, and high-precision timing. Using multistage versatile content aware processor (VCAP) technology, it delivers VLAN and QoS processing that enables delivery of differentiated services, security through intelligent frame processing and flexible frame manipulation.

A powerful 1 GHz dual-core CPU enables full management of a Layer 2 and Layer 3 Ethernet switch solution.

A comprehensive Application Programming Interface (API) and turnkey software development package accelerates time-to-market for managed Ethernet applications.

The software API package integrates easily with third-party software, preserving existing software investments.

To obtain the SparX-5i register file, [click here](#).

[^ Collapse](#)

Product Features

- 802.1Qbv (TAS)
- 802.1Qch (CQF)
- 802.1Qci (PSFP)
- 802.1AS-Rev
- 802.1CB (FRER)
- 802.1Qbu/802.3br (Frame Preemption)
- **VSC6817 IStax Linux Application Software Package for Managed Ethernet Switches**
- Up to 20x 10G ports
- Up to 8x 25G ports
- Fully managed L2 switching and L3 forwarding features
- Industrial Temperature range
- Easy upgrade within SparX-5i family to higher bandwidth

Parametrics

Click on a property to perform a parametric search for other products with that property.

Automotive	no
# Ethernet Ports	64
Ethernet Bandwidth	10/100/1000/2500Mbps 5/10/25Gbps
Fiber Support	100FX, 1000X, SFI
IEEE1588	yes
Interface	SGMII, QSGMII, USGMII, USXGMII, XFI
Interrupt Pin	yes
On-Chip Termination	yes
IOPins	32
Largest Pkt-Size Bytes	9600
LinkMD Cable Diag	no

Managed	yes
# of Ether Ports	64
# of VLAN	4000
Op Voltage	1
Ports	64
SGMII	32
Static MAC Addr	32000
Supply Voltage (V)	0.9
Temp Range (°C)	-40 - 110
Vdd I/O (V)	0.9/1.0/1.5/1.8/3.3

All Application Notes

Documentation

Select Option Search Documentation

Title	Document Category	DS Number	Download	Link
Collateral Documents for devices	Data Sheets			Link
AN3883 - Software Options for VSC Switches	Application Notes	DS00003883	Download	
SparX-5(i) BSDL File	Board Design Files		Download	
VSC5640EV_Reference Design Files	Board Design Files		Download	
SparX-5/Si IBIS-AMI model (Ver 5.1)	Board Design Files		Download	
SparX-5/Si IBIS-AMI model (Ver 7.0)	Board Design Files		Download	

1 2

Embedded Software

Title	Download	Link
VSC6817 IStax Software		Link

Development Environment

Demo & Evaluation Boards



VSC5640EV SPARX-5,-5I
EVALUATION BOARD, 12 SFP
8 SFP28

SparX-5,-5i Ethernet Development
System

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Similar Devices

Product	Ethernet Bandwidth	Interface
ksz8462	10/100Mbps	Host Bus
ksz8463	10/100Mbps	MII / RMII
ksz8563	10/100Mbps	MII/RMII/RGMII
ksz8565	10/100Mbps	MII/RMII/RGMII
ksz8567	10/100Mbps	MII/RMII/RGMII/SGMII
ksz8765	10/100Mbps	MII/RMII/RGMII/GMII

6 of 79 results

1 2 3 4 5... 14

RoHS Information


Product	JEDEC Indicator	ROHS	China EFUP	Device Weight (g)	Shipping Weight (kg)	Lead Count
VSC7558TSN-V/5CC	e1			4.8	7.8	888

1 of 1 results

To see a complete listing of RoHS data for this device, please [Click here](#)

Shipping Weight = Device Weight + Packing Material weight. Please [contact sales](#) office if device weight is not available.

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Product Details	Pins Packaging	Temp Range	Packing Media	Pricing	Availability	Add to Cart
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 VSC7558TSN-V/5CC	888 FCBGA	-40 to 110 junction	Tray (40)	Buy Now Price, Any Volume 1-24 Estimated High-Volume Pricing 1000-4999 5000+	Out of Stock Order now, can ship on 18-Aug-2022	<input type="text"/> Add to Cart Multiples of 40
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