



FlowDirector-3200

32x 40Gb/100Gb QSFP+/QSFP28 Ports Fabric Visibility Appliance

FlowDirector Product Family Overview

InfiniCORE Networks FlowDirector product family is purposefully designed to help network administrators to build next generation fabric visibility networks. The FlowDirector makes it easy to tap, aggregate, replicate, tag, strip, filter and load balance traffic from multiple sources to feed visibility networks, empowering network administrators to deploy monitoring devices on the fly without the need for SPAN ports. The industry leading InfiniOS operating system, coupled with its innovative software defined flow domains provides an easy to use, single pane user interface for network administrators.

The FlowDirector-3200 leverages state of the art silicon technology to provide 32x 40Gbps/100Gbps QSFP+/ QSFP28 ports that are capable of operating at 40Gbps and 100Gbps. Each 40Gb/100Gb QSFP+/QSFP28 port can be also broken into 4 10Gb/25Gb ports. The FlowDirector-3200 provides line rate 6.4Tbps operation over all interfaces even for the smallest packet size.

Main Features and Benefits				
	Features	Benefits		
Unprecedented Line Rate Packet Processing capability Over 32 Ultra High Speed Traffic Ports	Up to 6.4Tbps of hardware ensured line rate packet operation over 32x 40Gbps/100Gbps QSFP+/QSFP28 ports.	Provides the best connectivity to wide variety of networks; Abundant network interfaces for future expansion; Worry free line rate operation.		
High Performance Software Defined Flow Manipulation Domains	Innovative Flow Domains provides the best flow manipulation with functional isolation for inline and/or offline tap, traffic aggregation, traffic replication, filter, tag and load balance applications.			
Integrated Lossless Connection Matrix over 10Gb, 25Gb, 40Gb and 100Gb Interfaces	FlowDirector provides an innovative Virtual Wire technology that can be used to cross connect from any port to any port with complete isolation and lossless traffic forwarding.	Virtual Wire Technology is ideal to be used in lab automation applications to cross connect ports with different speeds and media types without rewiring the cables.		
Innovative, State of the Art, Web Based Management Framework	FlowDirector family has native state-of-the- art HTML 5 Web based user interface that can be accessed from any standard based web browser.	that anywhere any device that is equipped with a		
High Reliability and Availability; Cost Effective and Green Operation	Leveraging latest generation processor and switch technologies, FlowDirector is power efficient and equipped with redundant power supplies and hot serviceable fans.	Reduce CAPEX and OPEXHigh Availability by Design		

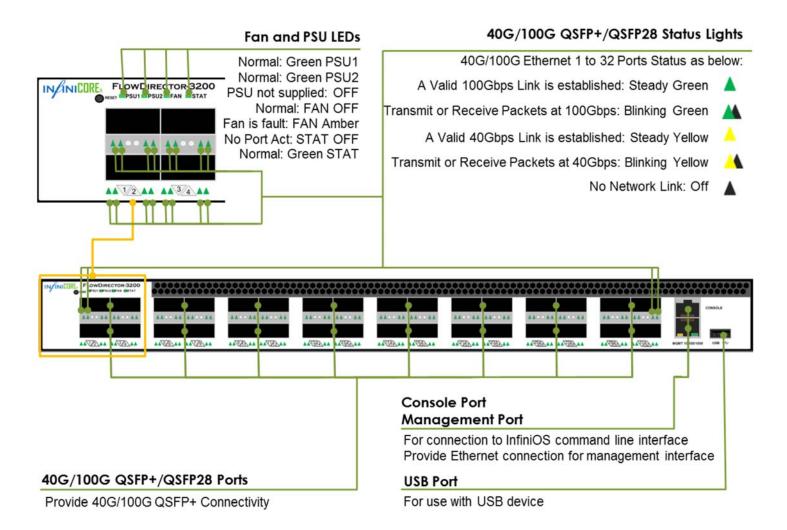


FlowDirector-3200 External Interfaces Specification

Function	Compliance	Туре	Quantity
40Gb/100Gb Traffic Ports	SFF-8436, SFF-8635 QSFP+ 40Gb Ports; SFF-8665 QSFP28 100Gb Ports	QSFP+/QSFP28 Fiber Optics; QSFP+/QSFP28 DAC Cable	32
40Gb/100Gb Traffic Ports Breakout Capabilities QSFP+ QSFP28 4x SFP+/ SFP28 10Gb/25Gb	Each 40Gb/100Gb Traffic Port Can be Split into 4 Ports to Support 10Gb/25Gb Operation. IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3aq 10GBASE-LRM IEEE 802.3by 25 Gigabit Ethernet SFP+ MSA, Revision 4.1 Direct-Attach Copper Support up to 3 Meters	QSFP28 to 4xSFP28 Splitter Cable QSFP+ to 4xSFP+ Splitter Cable	32 QSFP+ to 128 SFP+ 32 QSFP28 to 128 SFP28
LED For the System	Power Module 1 Status LED Power Module 2 Status LED FAN Status LED STAT Status LED	Green/Amber Green/Amber Green/Amber Green/Amber	1 1 1 1
LED For QSFP+/QSFP28 Traffic Ports	Combo LED for Link and Activity	Amber for QSFP+; Green for QSFP28	1 Per Link; 4 Per Port
10/100/1000Mbps Management Port	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	1
Visible LED for RJ-45 Management Port	LED for Link LED for Activity	Green/Orange LED Green LED	2
Console Port	115200 Baud 8 Bit Data No Parity 1 Stop Bit	Serial	1
USB Port	USB 2.0 High Speed 480Mpbs Port	USB Type A	1
Air Flow and Fans	PWM Controlled Long Endurance Fan	Front to Back Air Flow	4
Redundant Power Supply	Dual 550W High Efficiency 100-240V AC 50-60Hz Class I	1+1 Redundant Power Supply	2
Rack Mount Kit	19 Inch Rack Mountable	19 Inch Rack Mountable	1
Chassis Dimension	Height X Width X Depth (inches)	1.75 x 17.3 x 19	NA



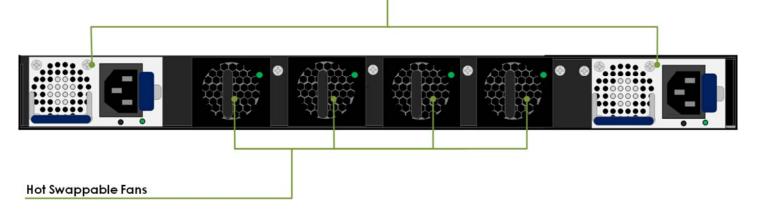
FlowDirector-3200 Front Panel Features



FlowDirector-3200 Rear Panel Features

AC Power Supply

AC power connection for use with the supplied power cords





FlowDirector-3200 Flow Operation Domain

The data path of FlowDirector can be configured through the concept of Virtual Flow Domain. The FlowDirector-3200 supports up to 10,240 Virtual Flow Domains which are isolated from each other, each can have its own data path, filter configuration, and load balancing rules, etc. Once activated, the configuration will be mapped and pushed into hardware.

The FlowDirector-3200 offers a variety of domains to support traffic tapping, inline processing, aggregation, replication, split & merge, tagging and load balancing.

Typical Flow Domains Supported by FlowDirector Flow Domain Designer Dynamic Virtual Wire Inline Traffic Split and Merge Selectively redirect/ П Zero loss cross connect drop traffic at line rate from any port to any port Merge traffic at line Т т Drag-and-drop rate Filters Ideal for lab automation Ideal for DDoS and remote operation defense or on demand Т traffic processing **Traffic Aggregation with Filters Traffic Replication with Filters** Τ Aggregate traffic to save Replicate traffic with downstream device ports filter support Line rate filtering Filters A Lossless 1-to-N hardware based data path **Traffic Aggregation with Reverse Switching Traffic Aggregation And Load Balancing** Ideal for aggregating Aggregate traffic and Ū₹ multiple switch links to load balance to м ice oad Bala M go through a security or downstream devices Engine visibility point Line rate filtering The reverse traffic will be Option to slice packets **T**< switched based on MAC **Traffic Aggregation with Replication** L2/L3 Switch Mode Select sub set of ports and Aggregate and use as regular L2/L3 replicate traffic

Wide Variety of Protocols Support

The FlowDirector-3200 supports wide variety of protocols including the following: TRILL, MPLS, VPWS, Q-in-Q, MAC-in-MAC, IPv4, IPv6, GRE, ECMP, TCP, UDP, IGMPv1, IGMPv2, IGMPv3, VEPA+

Sub Switch

Sub Switch

Filter and slice

traffic

switch

Line rate forwarding

across all ports Jumbo frame support



FlowDirector-3200 Standard Peripherals

Part Name	Quantity
DB-9 to RJ-45 Serial Console Cable	1
UTP Cat 6. Ethernet Cable	1
Rail Mounting Kit	1
CD (User Manual, software package)	0 or 1
USB System Recovery Thumb Drive	1 or Download

FlowDirector-3200 Physical and Environmental Specification

Item	Description	
Dimension (Width x Depth x Height)	19 x 17.3x 1.75 (inches) 483 x 440 x 44 (millimeters)	
Net Weight	19.5 (pounds) / 8.8 (kilograms)	
Environment	Operating Temperature: Non Operating Temperature: Humidity:	0° ~ 40° C (32° ~ 104° F) -40° ~ 70° C (-40° ~ 158° F) 20 ~ 90% (Non-condensing)

FlowDirector-3200 Order Information

Please contact InfiniCORE regional distributors/resellers or InfiniCORE sales for further information.

Part Number	Traffic Ports	Port Specification	Software Package
FDS-3200-R2	32 QSFP+/QSFP28	32x 40G/100G QSFP+/QSFP28 Ports	Standard InfiniOS Software Package

Product Member In the FlowDirector Product Family

Part Number	Traffic Ports	Port Specification	Software Package
FDS-240G-R1 FDS-240G-R2 (2 Redundant PSUs)	24 SFP/SFP+ + 0 QSFP+	24x 1G/10G SFP/SFP+ Ports with DAC Support	Standard InfiniOS Software Package
FDS-640-R2	48 SFP/SFP+ + 4 QSFP+	48x 1G/2.5G/10G SFP/SFP+ Ports with DAC Support; 4x 40G QSFP+ Ports	Standard InfiniOS Software Package
FDS-640Plus-R2	48 SFP/SFP+/SFP28 + 6 QSFP+/QSFP28	48x 1G/10G/25G SFP/SFP+/ SFP28 Ports with DAC Support; 6x 40G/100G QSFP+/QSFP28	Standard InfiniOS Software Package

Accessories

Part Number	Port Specification	
QSFP-3M-QSFP-QSFP-DAC	3 Meter 40Gb QSFP+ to QSFP+ DAC cable	
QSFP-3M-QSFP-SFP-DAC	3 Meter 40Gb QSFP+ to SFP+ DAC cable	