





FlowDirector-3200-F

32x 40Gb/100Gb (128x 10/25Gb) QSFP+/QSFP28 Fabric Visibility Appliance

Product Overview

InfiniCORE Networks FlowDirector-3200-F fabric visibility appliance is designed to provide network administrators essential capabilities to build next generation visibility infrastructure. Powered by Intel's P4 programmable TofinoTM switch ASIC and InfiniCORE Visibility Operating System, the FlowDirector-3200-F bring the capabilities together to tap, aggregate, replicate, tag, strip, filter and load balance network traffic, with or without the expensive SPAN port on the switch or router.

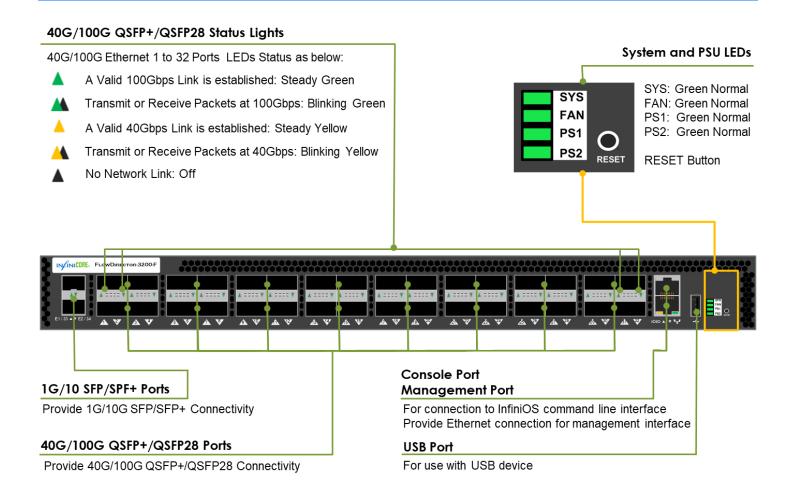
The FlowDirector-3200-F has 32 40Gbps/100Gbps QSFP+/QSFP28 ports. Each 40Gb/100Gb QSFP+/QSFP28 port can operate as 4x 10Gb/25Gb ports.

The FlowDirector-3200-F can be deployed as a capture front end to the InfiniCORE FlowMagic traffic and content visibility appliance to provide unprecedent flexibility, performance and port densities in network monitoring applications.

Main Functions and Features			
	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.	Ideal for enterprises and service providers to create application specific data paths suited for their network visibility 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.	Access the management interface from anywhere any device that is equipped with a modern browsers such as Chrome, Firefox, Safari and Internet Explorer.	
High Reliability, 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-F Front Panel Features



FlowDirector-3200-F Rear Panel Features

AC power connection for use with the supplied power cords Hot Swappable Fans



FlowDirector-3200-F External Interfaces Specification

Functions	Compliance	Type	Quantity
Advanced Network Packet Broker functionalities Fully programmable purposefully developed P4 data path optimized for Visibility Applications	 Packet replication up to 1:32; Packet aggregation across all ports; Rich filter functions for fields found in TCP/UDP, VxLAN, GTP, ERSPAN a Load balancer on L3 and L4 fields for VxLAN/GTP header or inner header; Strip VLAN/MPLS/VNTag/CiscoFab GTP/ERSPAN; VLAN Tag insertion, port tagging fun Packet slice and timestamping; Virtualwire for lossless cross connect applications 	All traffic ports	
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	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; 1 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 1+1 Redundant Power AC 50-60Hz Class I 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

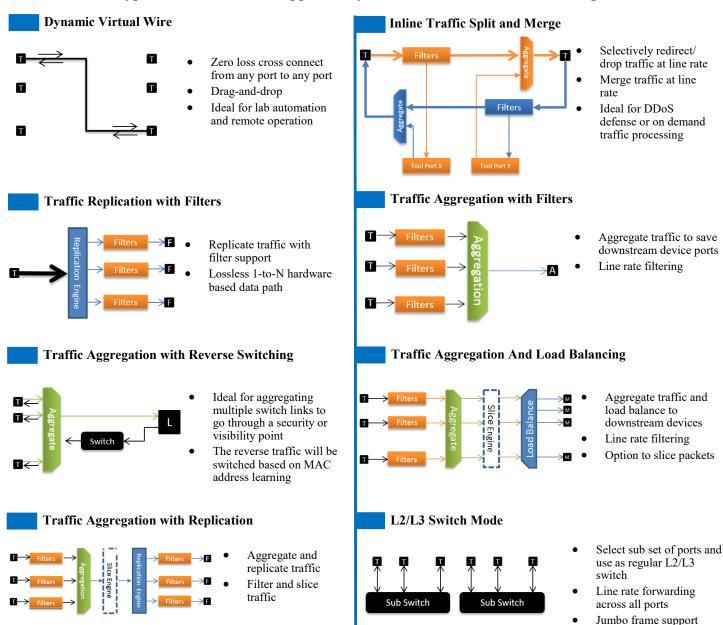


FlowDirector-3200-F Flow Operation Domain

The data path of FlowDirector can be configured through the concept of Flow Domain. The FlowDirector-3200-F 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-F 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



Wide Variety of Protocols Support

The FlowDirector-3200-F supports wide variety of protocols including the following: MPLS, Q-in-Q, IPv4, IPv6, VxLAN, GTP, GRE and flexible VLAN operations.



FlowDirector-3200-F 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-F 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:	$0^{\circ} \sim 40^{\circ} \text{ C } (32^{\circ} \sim 104^{\circ} \text{ F})$ - $40^{\circ} \sim 70^{\circ} \text{ C } (-40^{\circ} \sim 158^{\circ} \text{ F})$ $20 \sim 90\%$ (Non-condensing)

FlowDirector-3200-F Order Information

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

Part Number	Traffic Ports	Port Specification	Software Package
FDS-3200-F-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-8B-R1 FDS-8B+-R1	6 10M/100M/1G RJ-45 6 10M/100M/1G RJ-45 + 2 1G/10G SFP/SFP+	6 10M/100M/1G copper ports; 6 10M/100M/1G copper ports; 2x 1G/10G SFP/SFP+ Ports with DAC Support	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
FDS-680-F-R2	48 SFP+/SFP28 + 8 QSFP+/QSFP28	48x 10G/25G SFP+/SFP28 Ports with DAC Support; 8x 40G/100G QSFP+/QSFP28 Ports	Standard InfiniOS Software Package
FDS-3200-R2	32 QSFP+/QSFP28	32x 40G/100G QSFP+/QSFP28 Ports	Standard InfiniOS Software Package
FDS-6400F-R2	64 QSFP+/QSFP28	64x 40G/100G QSFP+/QSFP28 Ports	Standard InfiniOS Software Package