

# BLACKDIAMOND

## PRODUCT COMPARISON CHART

FEATURES	BlackDiamond® 20808	BlackDiamond 20804	BlackDiamond 10808	BlackDiamond 12804R	BlackDiamond 12802R	BlackDiamond 12804C	BlackDiamond 8810	BlackDiamond 8806
Max Auto-Negotiating 10/100BASE-TX Ports	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Auto-Negotiating 10/100/1000BASE-T Ports	N/A	N/A	480	80	40	80	784	400
Max Gigabit Ethernet Ports (GBIC or SFP)	320	160	480	80	40	80	440	248
Max 10 Gigabit Ethernet Ports	64	32	48	8	4	8	194	98
Form Factor/Footprint	Chassis/14.5RU	Chassis/11RU	Chassis/22RU	Chassis/10RU	Chassis/3RU	Chassis/10RU	Chassis/14RU	Chassis/10RU
Stacking Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Switching Capacity	2 Tbps	1 Tbps	1.28 Tbps	160 Gbps	80 Gbps	160 Gbps	1.45 Tbps	816 Gbps
Programmable ASICs	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Redundant Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power over Ethernet (802.3af)	No	No	No	No	No	No	Yes	Yes
Wire-Speed Layer 2/Layer 3 Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing - IPv4	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP
Routing - IPv6	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS
MPLS/H-VPLS	Yes	Yes	Yes	Yes	Yes	Yes	h/w ready	h/w ready
Policy-Based Routing/Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Policy-Based Quality of Service (QoS)	Yes/ Three Tier	Yes/ Three Tier	Yes	Yes/Three Tier	Yes/Three Tier	Yes	Yes	Yes
Network Login	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Access Control Lists	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Universal Port	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI Scripting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Widgets	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 3 Virtual Switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
vMANs (802.1ad)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC-in-MAC (802.1ah)	Yes	Yes	Yes	Yes	Yes	Yes	No	No
CLEAR-Flow	Yes	Yes	Yes	Yes	Yes	Yes	Yes (c-series)	Yes (c-series)
sFlow®	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Spanning Tree (802.1w, 802.1s, PVST+)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Aggregation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switch Management Capabilities	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups
License - Upgrades	MPLS-PBB, H-QoS	MPLS-PBB, H-QoS	MPLS, H-QoS	MPLS, H-QoS	MPLS	MPLS	Core	Core
License - Default	Core	Core	Core	Core	Core	Core	Advanced Edge	Advanced Edge

# SUMMIT

## PRODUCT COMPARISON CHART

FEATURES	Summit® X650	Summit X480	Summit X450a	Summit X450e	Summit X250e	Summit X350	Summit X150
Max Auto-Negotiating 10/100BASE-TX Ports	N/A	N/A	N/A	N/A	24 (SFP available) or 48	N/A	24 or 48
Max Auto-Negotiating 10/100/1000BASE-T Ports	N/A	12 or 48	24 or 48	24 or 48 (both with PoE)	2	24 or 48	2
Max Gigabit Ethernet Ports (GBIC or SFP)	4	4, 24, or 48	4	4	2	4	2
Max 10 Gigabit Ethernet Ports	24 (default), 32 (with VIM1-10G8X)	2, 4, or 6	2	2	N/A	2	N/A
Form Factor/Footprint	Fixed/1RU	Fixed/1RU	Fixed/1RU	Fixed/1RU	Fixed/1RU	Fixed/1RU	Fixed/1RU
Stacking Support	Yes, SummitStack™, SummitStack256, SummitStack512	Yes, SummitStack, SummitStack128	Yes, SummitStack	Yes, SummitStack	Yes, SummitStack	No	No
Total Switching Capacity	488-680 Gbps	224-448 Gbps	128-256 Gbps	128-256 Gbps	48.8-97.6 Gbps	88-176 Gbps	8.8-13.6 Gbps
Programmable ASICs	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Redundant Power	Yes/Hot Swappable	Yes/Hot Swappable	Yes/External	Yes/External	Yes/External	Yes/External	Yes/External
Power over Ethernet (802.3af)	No	No	No	Yes	Yes	No	Summit X150-24p
Wire-Speed Layer 2/Layer 3 Switching	Yes	Yes	Yes	Yes	Yes	Wire-Speed Layer 2	Wire-Speed Layer 2
Routing - IPv4	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	BGP4, IS-IS, OSPF, RIP v1/v2, PIM, MSDP	OSPF, RIP v1/v2, PIM	OSPF, RIP v1/v2, PIM	No	No
Routing - IPv6	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng, OSPFv3, IS-IS	RIPng	RIPng	No	No
MPLS/H-VPLS	No	Yes	No	No	No	No	No
Policy-Based Routing/Switching	Yes	Yes	Yes	Yes	Yes	Yes/Policy-Based Switching	Yes/Policy-Based Switching
Policy-Based Quality of Service (QoS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Network Login	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Control Lists	Yes, Ingress and Egress	Yes, Ingress and Egress	Yes, Ingress	Yes, Ingress	Yes, Ingress	Yes, Ingress	Yes, Ingress
Universal Port	Yes	Yes	Yes	Yes	Yes	No	No
CLI Scripting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Widgets	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 3 Virtual Switching	Yes	Yes	No	No	No	N/A	N/A
vMANs (802.1ad)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC-in-MAC (802.1ah)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CLEAR-Flow	Yes	Yes	Yes	No	No	No	No
sFlow®	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EAPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Spanning Tree (802.1w, 802.1s, PVST+)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Aggregation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switch Management Capabilities	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups	SNMP, XML, Web, CLI, 4 RMON groups
License - Upgrades	Core	Core, MPLS	Core	Advanced Edge	Advanced Edge	N/A	N/A
License - Default	Advanced Edge	Advanced Edge	Advanced Edge	Edge	Edge	Layer 2-Edge	Layer 2-Edge