velocity
DZS

Reimagine Your Path to Next Gen PON (and the Gen After That)

Industry's broadest multi-gigabit Optical Line Terminal (OLT) portfolio

DZS Velocity

The DZS Velocity portfolio, environmentally hardened (-40 to +65 Celsius) across the entire range, has form factors ranging from compact 1RU units through 2-slot, 6-slot, 14-slot, and 16-slot chassis systems. It is the industry's broadest access portfolio made to span the needs from the central office or data center all the way to the remote access EDGE. Complemented by DZS XCelerate system-on-a-card technology that is common for all systems, the DZS Velocity portfolio empowers service providers to leap to multi-gigabit services at scale by enabling rapid transition from GPON to XGS-PON and 1 or 10 gigabit Ethernet and on to 50G and even 100G services via any service port across the range of DZS systems, including in-place upgrades and stackable options.

Velocity V1-08XC

A compact 1 RU solution with 8 OLT ports for cost effective GPON, XGS-PON, Combo services.

Velocity V1-16XC

A compact 1 RU solution with 16 OLT ports for cost effective GPON, XGS-PON, Combo services.

Velocity V2

A 2RU chassis, high-capacity system with 32 OLT ports supporting GPON, XGS-PON, Combo, 10GE AE services

Velocity V6

Flagship and groundbreaking 6RU OLT system with industry-leading 96 port capacity and extraordinary performance ready for high-density GPON/XGS-PON/AE/100AE deployments and future in-place upgrades to 50/100G PON.

Velocity V14

Industry leading 14RU 224 port OLT capacity and extraordinary performance that is ready for high-density GPON/XGS-PON/AE deployments.

Velocity V16

Industry leading 14RU 256 port OLT capacity and extraordinary performance that is ready for high-density GPON/XGS-PON/AE deployments.

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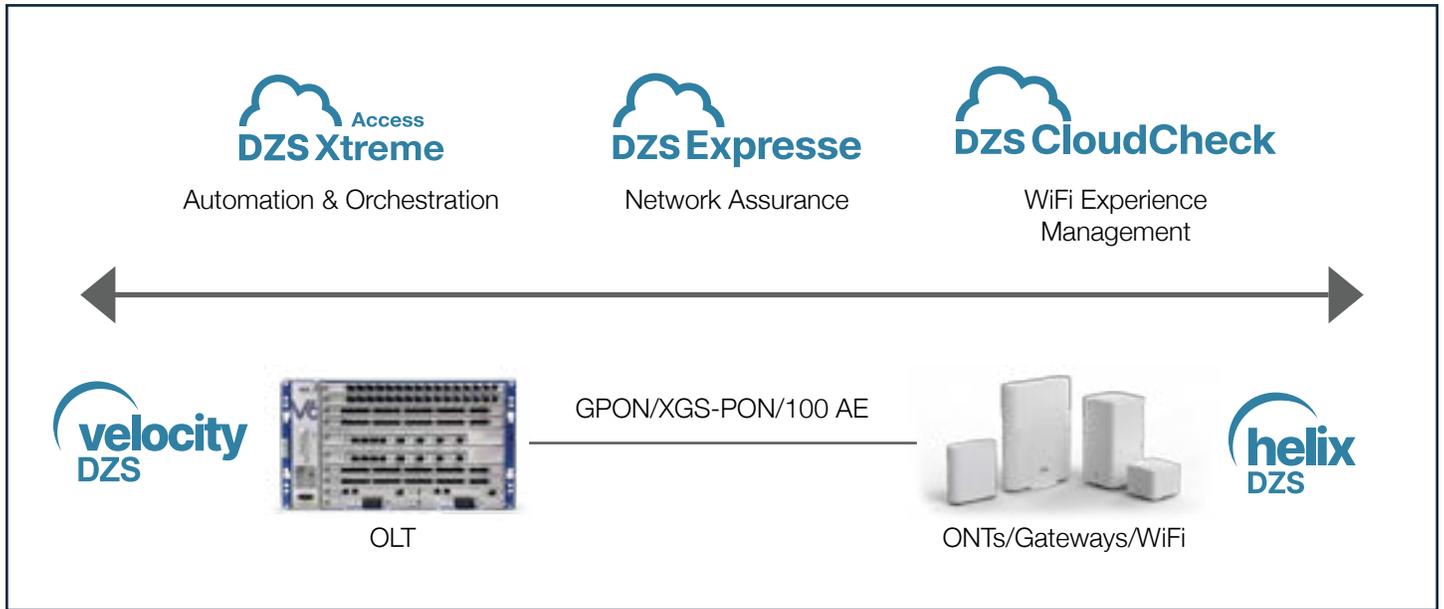# Velocity OLT Side by Side Matrix

	V1-08XC	V1-16XC	V2	V6	V14	V16
Shelf Type	Compact 1RU	Compact 1RU	Chassis	Chassis	Chassis	Chassis
Total Number of Slots	-	-	4	12	18	20
Number of Multi-Service Subscriber/Line/Access Slots	-	-	2	6	14	16
Number of Fabric/Network Facing Slots	-	-	-	2	2	2
Number of Management/Network Slots	-	-	2	2	2	2
Other Slots (Power Cards)	-	-	-	2	-	-
Max. OLT Ports	8	16	32	96	224	256
Max. GPON Ports (2.5G/1.25G)	8	16	32	96	224	256
Max. XGS-PON Ports (10G/10G)	8	16	32	96	224	256
Max. GPON/XGS-PON Combo Ports	8	16	32	96	224	256
Max. GPON/XGS-PON subscribers at 1:64	512	1024	2048	6144	14336	16384
Max. GPON/XGS-PON subscribers at 1:128	1024	2048	4096	12288	28672	32768
Max. Active Ethernet (1GE) Access Ports	-	-	64	192	448	512
Max. Active Ethernet (10GE) Access Ports	-	-	32	96	224	256
Uplinks 10GE	-	-	4+4	"+12	"+28	"+32
Uplinks 25GE	4	4	-	"+12	-	-
Uplink Tunks 40GE	-	-	-	4+12	4+28	4+32
Uplinks 100GE	-	2	-	4+12	4+28	4+32
Dimensions						
Height (Rack Units)	44mm (1 RU)	44mm (1 RU)	88.1mm/3.47" (2 RU)	266.2mm/10.48" (6 RU)	622mm/24.49" (14 RU)	622mm/24.49" (14 RU)
Width	440mm	440mm	441mm/17.38"	482.6mm/19"	441mm/17.38"	489mm/19.25"
Depth	250mm	280mm	280mm/11.02"	223.5mm/8.79"	280mm/11.02"	280mm/11.02"
Compliance	ETSI EN 300_119-3_v2.2.2_09-2009	ETSI EN 300_119-3_v2.2.2_09-2009	ETSI EN 300_119-3_v2.2.2_09-2009	ETSI EN 300_119-3_v2.2.2_09-2009	ETSI EN 300_119-3_v2.2.2_09-2009	ETSI EN 300_119-3_v2.2.2_09-2009
Local Management Interface						
Console	Yes	Yes	Yes	Yes	Yes	Yes
Gigabit Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Environmental						
Safety	EN 62368-1, UL 62368-1	EN 62368-1, UL 62368-1	EN 62368-1, UL 62368-1	EN 62368-1, UL 62368-1	EN 62368-1, UL 62368-1	EN 62368-1, UL 62368-1
EMC Emisions/Immunity	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386	FCC Part 15 Class A, EN 55022 Class A, CES-003 Class A, EN 300 386
Storage Conditions (Temperature)	-4-158°F (-20-70°C)	-40-158°F (-40-70°C)	-40-149°F (-40-65°C)	-40-149°F (-40-65°C)	-40-149°F (-40-65°C)	-40-149°F (-40-65°C)
Operating Humidity	5 to 95 % (non-condensing)	5 to 95 % (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)	5 to 85% (non-condensing)
Operating Temperature (DC)	-4-140°F (-20-60°C)	-40-149°F (-40-65°C)	-40-149°F (-40-65°C)*	-40-149°F (-40-65°C)	-40-149°F (-40-65°C)*	-40-149°F (-40-65°C)*
Power Supply						
Feeds/Supplies	Dual Power supply replaceable modules	Dual (A/B redundant) power feeds	Dual (A/B redundant) power feeds	Dual (A/B redundant) power feeds	Dual (A/B redundant) power feeds	Dual (A/B redundant) power feeds
Operating Voltage	48V DC, 100-240V AC	-43.75V to -59.9V DC	-43.75V to -59.9V DC	-42V to -65V DC	-43.75V to -59.9V DC	-43.75V to -59.9V DC

Notes:
" + uplink from Xcelerate cards
* -40-60C when equipped with Xcelerate Cards

DZS Access Edge Solutions

DZS Xtreme <small>Access</small>
Automation & Orchestration

DZS Expresse
Network Assurance

DZS CloudCheck
WiFi Experience Management

velocity DZS

OLT

GPON/XGS-PON/100 AE

helix DZS

ONTs/Gateways/WiFi

Supporting DZS Products

DZS Xtreme <small>Access</small>

Powerful DZS Xtreme Access SDN Management and Control, Automation and Orchestration intent-driven software designed for rapidly deploying subscriber services in multi-vendor access environments, from GPON to XGS-PON and beyond.

helix DZS

Leading portfolio of GPON/XGS-PON ONTs, WiFi Residential ONT Gateways, Access Points, Extenders and FiberLAN Business Gateways.

DZS CloudCheck

AI/ML and cloud-based software to provide the ultimate WiFi Experience for your customers. CloudCheck supports the widest array of consumer premise equipment on the market including DZS Helix devices.

DZS Expresse

Gain a clear view of the subscriber's broadband access network connections with our AI-based intelligent recommendation engine. DZS Expresse integrates with network and business processes to take the right actions and deliver the best possible subscriber QoE.

DZS

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