



zyxel MSAN feature matrix Central User Guide

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MSAN/DSLAM product portfolio

OSP Remote/central



Port density															
AD SL2 +	-	-	-	-	-	-	24	128	360	720	1152	-	-	-	-
AD SL2 + Combo	-	-	-	-	-	-	-	-	240	480	768	-	-	-	-
SH DSL	-	-	-	-	-	-	32	-	240	480	768	-	-	-	-

VDS L2	–	–	–	–	24	24	–	96	240	480	768	–	–	–	–
Vol P	–	–	–	–	–	24	–	256	360	720	1152	–	–	–	–
VDS L2/ Vec tori ng	–	–	–	24	–	–	–	–	–	–	–	96	192	2×192	3×192
1G AO N	–	–	–	–	–	–	–	–	120	240	384	80	200	400	600
PO N	–	–	–	–	–	–	–	–	–	–	–	32	64	160	–*
10G PO N	–	–	–	–	–	–	–	–	–	–	–	16	32	–	–
G.fast	4 (106 MHz)	16 (106 MHz)	8 (212 MHz)/ 16 (106 MHz)	–	–	–	–	–	–	–	–	–	–	–	–
* By project request															

MSAN/DSLAM key features

Category	Model	Key features
Central MSAN 	IES-6000	• Maximum 1152-port VoIP density, 1152-port ADSL2+ density, 768-port ADSL2+ combo density, 768-port SHDL density, 768-port VDSL2 density, or 384-port Gigabit Ethernet density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Full redundancy of management card and power module • Comprehensive QoS to enhance triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation



IES6217

- Maximum 192×3-port vectoring VDSL density, 600-port Gigabit Ethernet density
- Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks
- DHCP option 82 and PPPoE IA features support versatile IP address assignment
- Board-Level Vectoring (BLV) and System-Level Vectoring (SLV)
- Full redundancy of management card and power module
- Comprehensive QoS enhanced triple-play experience
- Field-proven IGMP snooping and proxy for IPTV deployments
- Sophisticated OAM&P features
- Temperature-hardened for flexible installation

	IES-5112	• Maximum 720-port ADSL2+ density, 480-port ADSL2+ combo density, 480-port SHDSL density, 480-port VDSL2 density, 720-port VoIP density, or 240-port Gigabit Ethernet density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Full redundancy of management card and power module • Comprehensive QoS to enhance triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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	IES5212	• Maximum 192×2-port vectoring VDSL density, 400-port Gigabit Ethernet density, or 160-port GPON density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Board-Level Vectoring (BLV) and System-Level Vectoring (SLV) • Full redundancy of management card and power module • Comprehensive QoS enhanced triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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	IES-5106	• Maximum 360-port ADSL2+ density, 240-port ADSL2+ combo density, 240-port SHDSL density, 240-port VDSL2 density, 360-port VoIP density, or 120-port Gigabit Ethernet density • Flexible ACL, VLAN-aware DHCP and anti-IP/MAC address spoofing to prevent malicious attack • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Comprehensive QoS to enhance triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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	IES5206	• Maximum 192-port vectoring VDSL density, 200-port Gigabit Ethernet density, 64-port GPON density or 32-port XGS-PON density • Supports symmetric XGS-PON for residential, cloud, and enterprise services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Board-Level Vectoring (BLV) and System-Level Vectoring (SLV) • Full redundancy of management card and power module • Comprehensive QoS enhanced triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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Category	Model	Key features
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Central MSAN 	IES4204	• Maximum 96-port vectoring VDSL density, 80-port Gigabit Ethernet density, 32-port GPON density, or 16-port XGS-PON density • Supports symmetric XGS-PON for residential, cloud, and enterprise services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Full redundancy of management cards and power module • Comprehensive QoS enhanced triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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Remote MSAN/ DSLAM 	IES4105	• Maximum 128-port ADSL2+ density, 96-port VDSL2 density, or 256-port VoIP density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Comprehensive QoS enhanced triple-play experience • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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	IES-1000	• Maximum 24-port ADSL2+ density, or 32-port SHDSL density • Two Fast Ethernet interfaces for uplink • Supports 802.1p QoS, priority queuing, 802.1q VLAN tag, and multicast • 1U, DC or AC power, and built-in POTS splitter • 2 FE electrical interface for uplinks and subtending
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	VES1724-56B2 VES1724-55C VES1724-58V	• Maximum 24-port VDSL2 density (VES1724-56B2, VES1724-58V), 24-port VoIP density (VES1724-58V), or 24-port vectoring VDSL density (VES1724-55C) • Complies with VDSL2 standards including ITU-T G.993.2, G.994.1, and G.997.1 • VDSL2 bonding and G.INP • SIP and H.248 for smooth voice over IP migration (VES1724-58V) • AC or DC dual-power with battery charge (VES1724-58V) • Fanless design for energy-saving and energy-saving and extended product life (VES1724-56B2, VES1724-55C) • Comprehensive QoS enhanced triple-play experience • Sophisticated OAM&P features • Temperature-hardened for flexible installation
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	GES1316-FSA GES1116-FSA	• G.fast with G.vectoring and VDSL2/35b fallback (GES1316-FSA) • Multi-service interfaces including G.fast, VDSL2, GPON, and fiber-based GbE • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • Field-proven IGMP snooping and proxy for IPTV deployments • Comprehensive QoS enhanced triple-play experience • Sophisticated OAM&P features • AC/DC dual-power with battery charge function • Fanless design for energy-saving and extended product life • Temperature-hardened for flexible installation
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OSP 	GES2104-R55/A55	• G.fast with G.vectoring and VDSL2 fallback • Multi-service interfaces including G.fast, VDSL2, GPON, and fiber-based GbE services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • Field-proven IGMP snooping and proxy for IPTV deployments • Comprehensive QoS enhanced triple-play experience • Sophisticated OAM&P features • Environmental-hardened for flexible installation • Fanless design for energy-saving and extended product life
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MSAN/DSLAM feature matrix

		Central MSAN						
		IES6217	IES5212	IES5206	IES4204	IES-6000	IES-5112	IES-5106
Product name		14U 17-slot Temperature-Hardened Chassis MSAN	8.3U 12-slot Temperature-Hardened Chassis MSAN	5U 6-slot Temperature-Hardened Chassis MSAN	2U 4-slot Temperature-Hardened Chassis MSAN	12.5U 17-slot Temperature-Hardened Chassis MSAN	8U 12-slot Temperature-Hardened Chassis MSAN	5U 6-slot Temperature-Hardened Chassis MSAN

Power		-36 to -72 V DC	-36 to -72 V DC	-36 to -72 V DC or 100 to 240 V AC	-36 to -72 V DC or 100 to 240 V AC battery charger	-36 to -72 V DC	-36 to -72 V DC	-36 to -72 V DC
Power redundancy		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating temperature		-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C
Operating humidity		10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH
Slot	Uplink	2/1	2	2/1	2	2/1	2	1
Downlink		15/16	10	4/5	2	15/16	10	5
Interface								
Uplink	1000BASE-SX/LX	4/8	4/8	4/8	4 + 4	4	4	4
10000BASE-SX/LX/ZX		4/8	4/8	4/8	4 + 4	2	2	2
Downlink	10G PON interface	—	—	32 XGS-PON	16 XGS-PON	—	—	—
PON interface		—	160	64	32	—	—	—

GE interface		600	400	200	80	384	240	120
VDSL2 interface		192 x 3 (Vectoring)	192 x 2 (Vectoring)	192 (Vectoring)	96 (Vectoring)	768	480	240
ADSL2+ interface		–	–	–	–	1152	720	360
ADSL2+ combo interface		–	–	–	–	768	480	240
G.SHDSL.bis interface		–	–	–	–	768	480	240
VoIP interface		–	–	–	–	1152	720	360
PON								
Maximum splitter ratio		GPON 1 : 128	GPON 1 : 128	10G PON: 1 : 256 GPON: 1 : 128	10G PON: 1 : 256 GPON: 1 : 128	–	–	–
Type B protection		Yes	Yes	Yes	Yes	–	–	–
AES		Yes	Yes	Yes	Yes	–	–	–
SFP digital diagnostic management		Yes	Yes	Yes	Yes	–	–	–
QoS								

802.1p priority queue		8	8	8	8	8	8	8
802.1q tag-based VLAN		Yes	Yes	Yes	Yes	Yes	Yes	Yes
SPQ /WF Q		Yes	Yes	Yes	Yes	Yes	Yes	Yes
DBA		Yes	Yes	Yes	Yes	–	–	–
Security								
IGMP v2, v3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP fast leave		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast VLAN		Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLDv1 & MLDv2 snooping and proxy		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management								

SNMP v2c, v3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Web management		Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI management		Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMS management		NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS
Physical specifications								
Dimensions (WxDxH)(mm/in.)		440 x 275 x 622/ 17.32 x 10.83 x 24.49	440 x 275 x 370/ 17.32 x 10.83 x 14.57	440 x 275 x 222/ 17.32 x 10.83 x 8.74	440 x 285 x 89/ 17.32 x 11.22 x 3.5	440 x 250 x 544/ 17.32 x 9.84 x 21.41	440 x 250 x 363/ 17.32 x 9.84 x 14.29	440 x 250 x 215/ 17.32 x 9.84 x 8.46
Weight (kg/lb.)		25.5/56.22	15.5/34.17	13/28.66	10.6/23.37	15/33.07	13.34/29.41	10.2/22.49

MSAN/DSLAM feature matrix

		Remote MSAN/DSLAM					OSP
		IES4105	IES-1000	VES1724-56B2 VES1724-55C VES1724-58V	GES1316-FSA	GES1116-FSA	GES2104-R55/A55

Product name		2U 5-slot Temperature- Hardened Chassis Remote M SAN	1U 2-slot Remote M SAN and Line Cards	24-port Temperature- Hardened VDSL2 Box DSLAM	8/16-port Temperature-Hardened G.fast DPU	16-port Temperature-Hardened G.fast DPU	4-port Environmental-Hardened G.fast DPU
Power		-36 to -72 V DC or 100 to 240 V AC or dual power	-36 to -72 V DC or 100 to 240 V AC	-36 to -72 V DC or 100 to 240 V AC	-36 to -72 V DC or 100 to 240 V AC battery charger	-36 to -72 V DC or 100 to 240 V AC battery charger	100 to 240 V AC or reverse power feeding
Operating temperature		-40°C to 65°C	0°C to 50°C	-40°C to 65°C	-40°C to 60°C	-40°C to 65°C	-40°C to 65°C
Operating humidity		10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH
Slot	Uplink	1	–	–	–	–	–
	Downlink	4	–	–	–	–	–
Interface							
Uplink	100BASE-SX/LX	–	2	–	–	–	–
	1000BASE-SX/LX	2	–	2	–	–	1
	10000BASE-SX/LX/ZX	–	–	–	2	2	–

Dow nlink	VDSL2 i nterfac e	96	–	24	–	–	–
	ADSL2 + interf ace	128	24	–	–	–	–
	G.SHDSL.bis i nterfac e	–	32	–	–	–	–
	VoIP int erface	256	–	24 (IES1724- 58V)	–	–	–
	G.fast i nterfac e	–	–	–	8/16	16	4
QoS							
802.1p priority queue		8	8	8	8	8	8
802.1q tag-bas ed VLAN		Yes	Yes	Yes	Yes	Yes	Yes
SPQ/ WFQ		Yes	Yes	Yes	Yes	Yes	Yes
Secu rity							
IGMP v2, v 3		Yes	Yes	Yes	Yes	Yes	Yes
IGMP fast l eave		Yes	Yes	Yes	Yes	Yes	Yes

Multi cast VLA N		Yes	Yes	Yes	Yes	Yes	Yes
MLDv1 & MLDv 2 snooping an d proxy		Yes	–	Yes	Yes	Yes	Yes
Mana geme nt							
SNM P v2c, v3		Yes	–	Yes	Yes	Yes	Yes
Web managem ent		Yes	Yes	Yes	Yes	Yes	Yes
CLI mana geme nt		Yes	Yes	Yes	Yes	Yes	Yes
EMS managem ent		Yes	Yes	Yes	Yes	Yes	Yes
Physical specifications							
Dime nsio ns (WxD xH)(mm/i n.)		441.2 x 2 62 x 88.8/ 17.37 x 1 0.31 x 3. 5	440 x 320 x 44/ 17.32 x 12 .60 x 1.73	440 x 250 x 4 4.35/ 17.32 x 9.84 x 1.75	440 x 250 x 44. 25/ 17.32 x 9.84 x 1 .73	440 x 250 x 4 4.25/ 17.32 x 9.84 x 1.73	438 x 216 x 104/ 17.24 x 8.5 x 4.0 9
Weig ht (k g/lb.)		3.2/7.05	3.7/8.16	4.7/10.36	6.0/13.23	6.0/13.23	13/28.66

MSAN/DSLAM line card information

Line card type	Model	Description	IES6217	IES5212	IES5206	IES4204	IES-6000	IES-5112	IES-5106	IES4105	IES-1000
Management and switching cards	MSC1324GB	Management and switching card with 2 10G and 4 GbE combo ports					•	•	•		
	MSC1324GC	Management and switching card with 2 10G and 4 GbE combo ports					•	•	•		
	MSC1280XB	Management card with 8 10 G SFP+ open slots	•	•	•						
	MSC1240QA	Management card with 4 10 G SFP+ open slots				•					
	MSC1002GA	Management card with 2 GbE combo ports								•	
VDSL line cards	VLC1424G-56	24-port DMT-based VDSL2 line card, Annex A, 30a profile					•	•	•		
	VLC1348G-51	48-port DMT-based VDSL2 line card 17a profile, Annex A/Annex B					•	•	•		
	VLC1348G-53	48-port DMT-based VDSL2 line card 17a profile, Annex A/Annex B					•	•	•		
	VLC1448X-51S	48-port vectoring VDSL2 Annex A line card with built-in ETSI&ANSI POTS splitter, 17a profile	•	•	•	•					

	VLC144 8X-51F	48-port dual-line vectoring VDSL2 Annex A line card with built-in ETSI & ANSI POTS splitter, 17a profile				•					
	VLC144 8X-51D	48-port dual-line vectoring VDSL2 Annex A line card (over POTS), 17a profile				•					
	VLC144 8X-51	48-port vectoring VDSL2 Annex A/B/M/J line card, 17a profile	•	•	•	•					
	VLC112 4A-51	24-port VDSL line card, Annex A and 17a profile with built-in splitter								•	
ADSL line cards	ALC137 2G-51	72-port Annex A ADSL2/ADSL2+ line card (over POTS)					•	•	•		
	ALC134 8G-51C	48-port Annex L and Annex M ADSL2+/VoIP combo card					•	•	•		
	ALC113 2A-51	32-port Annex A ADSL2/2+ line card (over POTS) with built-in splitter								•	
	AAM12 12-51	12-port Annex A ADSL2/ADSL2+ module (over POTS)									•
VoIP line cards	VOP11 64A-61	64-port VoIP line card. H.248 or SIP								•	
	VOP13 72G-61 (SIP/H.248)	72-port SIP/H.248 VoIP line card					•	•	•		

Vectoring line card	VEC100 1X	192-port vectoring engine card	•	•	•						
GbE line cards	GLC132 0G-55	20-port Gigabit Ethernet SFP (1000BASE-FX, 1000BASE-BX, and 1000BASE-LX)					•	•	•		
	GLC144 0X-55A	Gigabit Ethernet line card with 20 GbE C-SFP/SFP open slots	•	•	•	•					
GPON line card	OLC341 6-42A	GPON line card with 16 GPON SFP open slots		•	•	•					
10G PON line card	OLC370 8-43A	10G PON line card with 8 XFP open slots			•	•					
SHDSL line cards	SLC134 8G-22	48-port G.SHDSL.bis line card					•	•	•		
	SAM13 16-22	12-port G.SHDSL.bis extension module									•



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