






|  | PLANET  | PLANET  |
|--|---|---|
| Model name   | XGS3-42000Rv2   | XGS3-42000R   |
| PHOTO  |  |  |
| <b>Hardware</b>  |   |   |
| Total Number of Slots                                    | 4   | 4   |
| Max. Management module                                   | 2   | 2   |
| Max. Standard module (Line Card)                         | 3   | 3   |
| Management module Redundancy                             | ■   | ■   |
| Number of Power Supply Bay                               | 2   | 2   |
| Switch Capacity  | 432Gbps   | 376Gbps   |
| Max. 10G Ports   | 12 SFP+   | 13 XFP  |
| Max. 10/100/1000 Ports                                   | 160   | 168   |
| USB Port<br>(Config file Upload/Download)                | YES   | -   |
| Max. 1000 SFP Slots                                      | 96  | 48  |
| Redundant Power  | 2 x AC  | 2 x AC  |
| IPv6 Routing   | ■   | ■   |
| <b>IPv4 Routing</b>                                      |   |   |
| Routing Interface  | VLAN Routing  | VLAN Routing  |
| IP Routing   | Static Route  | ■   |
|  | RIP v1 / v2   | ■   |
|  | OSPFv2  | ■   |
|  | BGP4  | ■   |
|  | IGMP  | V1, V2, V3  |
| Multicast Routing  | DVMRP   | ■   |
|  | PIM-DM  | ■   |
|  | PIM-SM  | ■   |
|  | PIM-SSM   | ■   |
| Policy-Based Routing                                     | ■   | ■   |
| VRRP   | ■   | ■   |
| CIDR (Classless Inter-Domain Routing)                    | ■   | ■   |
| MRPP (Multi-layer Ring Protection Protocol)              | ■   | ■   |
| <b>IPv6 Features</b>                                     |   |   |
| RIPng  | ■   | ■   |
| OSPFv3   | ■   | ■   |
| MBGP4+   | ■   | ■   |
| IPv6 Tunnel (6 to 4 Tunnels)                             | ■   | ■   |
| ND (Neighbor Discovery)                                  | ■   | ■   |
| ND Snooping  | ■   | ■   |
| VRRPv3   | ■   | ■   |
| ISATAP (Intra-Site Automatic Tunnel Addressing Protocol) | ■   | ■   |
| <b>Layer 2 Features</b>                                  |   |   |
| Bandwidth Control  | In / Out  | In / Out  |
| Link Aggregation   | Static  | 128 Trunks / 8 Ports  |
|  | LACP  | 128 Trunks / 8 Ports  |
| VLAN   | 802.1Q  | ■   |
|  | Portocol-Based  | ■   |
|  | Q-in-Q  | ■   |
|  | GVRP  | ■   |
|  | Private VLAN  | ■   |
|  | Voice VLAN  | ■   |
| Spanning Tree  | 802.1d/1w/1s  | 802.1d/1w/1s  |
| STP BPDU Guard   | ■   | ■   |
| BPDU Filtering   | ■   | ■   |

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|--|-------------------|---|---|
| Model name                                 |                   | XGS3-42000Rv2   | XGS3-42000R   |
| PHOTO                                      |                   |  |  |
| <b>Multicast</b>                           |                   |   |   |
| IGMP Snooping                              |                   | V1, V2, V3  | V1, V2, V3  |
| IGMP Query mode                            |                   | ■   | ■   |
| IGMP Filtering                             |                   | ■   | ■   |
| MLDv1/v2 (Multicast Listener Discovery)    |                   | ■   | ■   |
| MLD v1/v2 Snooping                         |                   | ■   | ■   |
| MVR (Multicast VLAN Registration)          |                   | ■   | ■   |
| MSDP (Multicast Source Descivery Protocol) |                   | ■   | ■   |
| <b>QoS</b>                                 |                   |   |   |
| QoS  | L2 802.1p         | ■ / 8 queue   | ■ / 8 queue   |
|  | L3 IP TOS / DSCP  | ■   | ■   |
|  | L4 TCP/UDP Port   | ■   | ■   |
|  | Strict / WRR      | ■ / ■   | ■ / ■   |
| Policy-Base DiffServ                       |                   | ■   | ■   |
| <b>Security</b>                            |                   |   |   |
| Authentication                             | 802.1X Port Based | ■   | ■   |
|  | MAC Based         | ■   | ■   |
| ACL  |                   | L2 / L3 / L4  | L2 / L3 / L4  |
| Time-Based ACL                             |                   | ■   | ■   |
| Port Security                              |                   | ■   | ■   |
| IP / MAC Security                          |                   | MAC Filter / IP-MAC Port Binding  | MAC Filter / IP-MAC Port Binding  |
| SSH / SSL                                  |                   | ■ / ■   | ■ / ■   |
| RADIUS                                     |                   | ■   | ■   |
| TACACS+                                    |                   | ■   | ■   |
| DHCP Snooping                              |                   | ■   | ■   |
| IP Source Guard                            |                   | ■   | ■   |
| ARP Inspection                             |                   | ■   | ■   |
| DoS Protection                             |                   | ■   | ■   |
| <b>Management</b>                          |                   |   |   |
| Management & Configuration                 |                   | WEB, Telnet, Console  | WEB, Telnet, Console  |
| Stacking                                   |                   | IP Stacking, up to 24 units   | IP Stacking, up to 24 units   |
| IPv6 Management                            |                   | ■   | ■   |
| SNMP                                       | V1, V2c           | ■   | ■   |
|  | V3                | ■   | ■   |
|  | Trap              | ■   | ■   |
|  | RMON              | 4 Groups  | 4 Groups  |
| Log  |                   | Logs, Syslog  | Logs, Syslog  |
| DHCP Relay                                 |                   | ■   | ■   |
| DHCP Option 82                             |                   | ■   | ■   |
| DHCP Server                                |                   | IPv6 / IPv4   | IPv6 / IPv4   |
| sFlow                                      |                   | ■   | ■   |
| Other Management                           |                   | SNTP, LLDP  | SNTP, LLDP  |
| <b>Physical</b>                            |                   |   |   |
| AC Power                                   |                   | Internal 100~240V AC  | Internal 100~240V AC  |
| DC Power                                   |                   | N / A   | N / A   |

|  | PLANET                                | D-Link               | Allied Telesis       | ZyXEL                                    | HP                                       |
|--|---------------------------------------|----------------------|----------------------|--|--|
| Model name   | XGS3-42000Rv2                         | DES-7206             | AT-SB4004            | MS-7206                                  | Procurve 4204vl (J8770A)                 |
|  |                                       |                      |                      |  |  |
| <b>Hardware</b>  |                                       |                      |                      |  |  |
| Total Number of Slots  | 4                                     | 6                    | 6                    | 6  | 4  |
| Max. Management module   | 2                                     | 2                    | 2                    | 2  | 1  |
| Max. Standard module (Line Card)   | 3                                     | 4                    | 4                    | 4  | 3  |
| Management module Redundancy   | ■                                     | ■                    | ■                    | ■  | --                                       |
| Number of Power Supply Bay   | 2                                     | 2                    | 2                    | 2  | 2  |
| Switch Capacity  | 432Gbps                               | 192Gbps              | 96Gbps               | 384Gbps                                  | -  |
| Max. 10G Ports   | 12                                    | 16                   | 3 (XFP)              | -  | 4  |
| Max. 10/100/1000 Ports   | 160                                   | 96                   | 96                   | 192                                      | 96                                       |
| Max. 1000 SFP Slots  | 96                                    | 96                   | 96                   | ?  | 16                                       |
| Redundant Power  | 2 x AC                                | 2 x AC or 2 x DC     | 2 x AC or 2 x DC     | 2 x AC                                   | 1 AC                                     |
| IPv6 Routing   | ■                                     | ■                    | ■                    | ■  | --                                       |
| <b>IPv4 Routing</b>  |                                       |                      |                      |  |  |
| Routing Interface  | VLAN Routing                          | VLAN Routing         | VLAN Routing         | VLAN Routing                             | VLAN Routing                             |
| IP Routing   | Static Route                          | ■                    | ■                    | ■  | ■  |
|  | RIP v1 / v2                           | ■                    | ■                    | ■  | ■  |
|  | OSPFv2                                | ■                    | ■                    | ■  | ■  |
|  | BGP4                                  | ■                    | ■                    | ■  | ■  |
| Multicast Routing  | IGMP                                  | V1, V2, V3           | V1, V2               | V1, V2, V3                               | V1, V2, V3                               |
|  | DVMRP                                 | ■                    | N / A                | ■  | ■  |
|  | PIM-DM                                | ■                    | ■                    | ■  | ■  |
|  | PIM-SM                                | ■                    | ■                    | ■  | ■  |
| Policy-Based Routing   | PIM-SSM                               | ■                    | ■                    | ■  | ■  |
|  | RRR                                   | ■                    | ■                    | ■  | ■  |
|  | VRRP                                  | ■                    | ■                    | ■  | ■  |
|  | CIDR (Classless Inter-Domain Routing) | ■                    | ■                    | ■  | ■  |
| MRPF (Multi-layer Ring Protection Protocol)  | ■                                     | ■                    | ■                    | ■  |  |
| IRDP (ICMP Router Discovery Messages)  | ■                                     | ■                    | ■                    | ■  |  |
| <b>IPv6 Features</b>   |                                       |                      |                      |  |  |
| RIPng  | ■                                     | ■                    | N / A                | N / A                                    | -  |
| OSPFv3   | ■                                     | ■                    | N / A                | N / A                                    | -  |
| MBGP4+   | ■                                     | ■                    | N / A                | N / A                                    | -  |
| IPv6 Tunnel (6 to 4 Tunnels)   | ■                                     | ■                    | N / A                | N / A                                    | -  |
| ND (Neighbor Discovery)  | ■                                     | ■                    | N / A                | N / A                                    | -  |
| ND Snooping  | ■                                     | ■                    | ■                    | ■  | -  |
| VRRPv3   | ■                                     | ■                    | N / A                | N / A                                    | -  |
| ISATAP (Intra-Site Automatic Tunnel Addressing Protocol)                           | ■                                     | ■                    | ■                    | ■  | -  |
| <b>Layer 2 Features</b>  |                                       |                      |                      |  |  |
| Bandwidth Control  |                                       | In / Out             | In / Out             | In / Out                                 | In / Out                                 |
| Link Aggregation   | Static                                | 128 Trunks / 8 Ports | ■                    | 5 Trunks / 8 Ports                       | 6 Trunks / 8 Ports                       |
|  | LACP                                  | 128 Trunks / 8 Ports | ■                    | 32 Trunks / 16 Ports                     | 6 Trunks / 8 Ports                       |
| VLAN   | 802.1Q                                | ■                    | ■                    | ■  | ■  |
|  | Portocol-Based                        | ■                    | ■                    | ■  | ■  |
|  | Q-in-Q                                | ■                    | ■                    | N / A                                    | ■  |
|  | GVRP                                  | ■                    | ■                    | ■  | ■  |
|  | Private VLAN                          | ■                    | ■                    | ■  | ■  |
| Spanning Tree  | STP                                   | 802.1d/1w/1s         | 802.1d/1w/1s         | 802.1d/1w                                | 802.1d/1w/1s                             |
|  | BPDU Guard                            | ■                    | ■                    | ■  | ■  |
|  | BPDU Filtering                        | ■                    | ■                    | ■  | ■  |
| <b>Multicast</b>   |                                       |                      |                      |  |  |
| IGMP Snooping  | V1, V2, V3                            | V1, V2               | V1, V2               | V1, V2, V3                               | V1, V2, V3                               |
| IGMP Query mode  | ■                                     | ■                    | N / A                | ■  | ■  |
| IGMP Filtering   | ■                                     | ■                    | ■                    | ■  | ■  |
| MLDv1/v2 (Multicast Listener Discovery)  | ■                                     | ■                    | ■                    | MLD                                      | ■  |
| MLD v1/v2 Snooping   | ■                                     | ■                    | ■                    | ■  | ■  |
| MVR (Multicast VLAN Registration)  | ■                                     | ■                    | ■                    | ■  | ■  |
| MSDP (Multicast Source Discovery Protocol)   | ■                                     | ■                    | ■                    | ■  | ■  |
| <b>QoS</b>   |                                       |                      |                      |  |  |
| QoS  | L2 802.1p                             | ■ / 8 queue          | ■ / ? queue          | ■ / 8 queue                              | ■ / 8 queue                              |
|  | L3 IP TOS / DSCP                      | ■                    | ■                    | ■  | ■  |
|  | L4 TCP/UDP Port                       | ■                    | ■                    | ■  | ■  |
|  | Strict / WRR                          | ■ / ■                | ■ / ■                | ■ / ■                                    | ■ / ■                                    |
| Policy-Based DiffServ  | ■                                     | ■                    | ■                    | N / A                                    | ■  |
| <b>Security</b>  |                                       |                      |                      |  |  |
| Authentication   | 802.1X Port Based                     | ■                    | ■                    | ■  | ■  |
|  | MAC Based                             | ■                    | ■                    | ■  | ■  |
| ACL  | L2 / L3 / L4                          | ■                    | ■                    | L2 / L3 / L4                             | N / A                                    |
| Time-Based ACL   | ■                                     | ■                    | ■                    | ■  | ■  |
| Port Security  | ■                                     | ■                    | ■                    | ■  | ■  |
| IP / MAC Security  | MAC Filter / IP-MAC Port Binding      | N / A                | IP-MAC Port Binding  | MAC Filtering / MAC Binding / Static MAC | MAC Filtering / MAC Binding / Static MAC |
| SSH / SSL  | ■ / ■                                 | ■ / ■                | ■ / ■                | ■ / ■                                    | ■ / ■                                    |
| RADIUS   | ■                                     | ■                    | ■                    | ■  | ■  |
| TACACS+  | ■                                     | ■                    | ■                    | N / A                                    | ■  |
| DHCP Snooping  | ■                                     | ■                    | ■                    | ■  | ■  |
| IP Source Guard  | ■                                     | ■                    | ■                    | ■  | ■  |
| ARP Inspection   | ■                                     | ■                    | ■                    | ■  | ■  |
| DoS Protection   | ■                                     | ■                    | ■                    | ■  | ■  |
| <b>Management</b>  |                                       |                      |                      |  |  |
| Management & Configuration   | WEB, Telnet, Console                  | WEB, Telnet, Console | WEB, Telnet, Console | WEB, Telnet, Console                     | WEB, Telnet, Console                     |
| Stacking   | IP Stacking, up to 24 units           | Up to 9 units        | -                    | iStacking                                | Virtual Stack of up to 16 units          |
| SNMP   | IPV6 Management                       | ■                    | ■                    | ■  | ■  |
|  | V1, V2c                               | ■                    | ■                    | ■  | ■  |
|  | V3                                    | ■                    | ■                    | ■  | ■  |
|  | Trap                                  | ■                    | ■                    | ■  | ■  |
| Log  | 4 Groups                              | 4 Groups             | 4 Groups             | 4 Groups                                 | 4 Groups                                 |
| DHCP Relay   | Logs, Syslog                          | Logs, Syslog         | System Log           | Syslog                                   | System Log, Syslog                       |
| DHCP Option 82   | ■                                     | ■                    | ■                    | ■  | ■  |
| DHCP Server  | IPv6 / IPv4                           | N / A                | ■                    | ■  | ■  |
| sFlow  | ■                                     | ■                    | ■                    | ■  | ■  |
| Other Management   | SNTP, LLDP                            | SNTP                 | ■                    | SNTP                                     | LLDP                                     |
| <b>Physical</b>  |                                       |                      |                      |  |  |
| AC Power   | Internal 100~240V AC                  | Internal 100~240V AC | Internal 100~240V AC | External 100~240V AC                     | Internal 100~240V AC                     |
| DC Power   | N / A                                 | 48V DC (40~60V DC)   | ■                    | -  | ■  |