

# 9300X/9300– B/9300/9300L/9300LM Comparison



| Feature               |                        | 9300X Fiber        | 9300X Copper       | 9300 — B           | 9300               | 3850                  | 9300L                         | 9300LM                | 3650                  |
|-----------------------|------------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-------------------------------|-----------------------|-----------------------|
| Foundational Hardware | ASIC                   | UADP 2.0Sec        | UADP 2.0Sec        | UADP 2.0 XL        | UADP 2.0           | UADP 1.0/UADP1.1      | UADP 2.0                      | UADP 2.0              | UADP 1.0/UADP 1.1     |
|                       | CPU                    | x86 CPU, Quad-core | x86 CPU, Quad-core | x86 CPU, Quad-core | x86 CPU, Quad-core | Cavium, Quad-Core CPU | x86 CPU, Denverton, Quad-core | x86 CPU, Quad-core    | Cavium, Quad-Core CPU |
|                       | Flash                  | 16GB               | 16GB               | 16GB               | 16GB               | 2GB                   | 16GB                          | 16GB                  | 2GB                   |
|                       | Memory                 | 16GB DDR4          | 16GB DDR4          | 8GB DDR4           | 8GB DDR4           | 4GB                   | 8GB DDR4                      | 8GB DDR4              | 4GB                   |
|                       | SSD                    | 3.0                | 3.0                | 3.0                | 3.0                | ✗                     | 3.0                           | 3.0(USB Type A)       | ✗                     |
| Uplinks               | Flexible/Fixed Uplinks | Flexible           | Flexible           | Flexible           | Flexible           | Flexible              | Fixed                         | Fixed                 | Fixed                 |
|                       | 1/10G/25G/40G          | ✓ + 100G           | ✓ + 100G           | ✓                  | ✓                  | ✓                     | 1/10G/40G Only                | 1/10G/25G Only        | 1/10 Only             |
| Power & Fan           | UPOE                   | NA                 | ✓                  | ✓                  | ✓                  | ✓                     | ✓                             | ✓                     | ✗                     |
|                       | Full PoE+              | NA                 | ✓                  | ✓                  | ✓                  | ✓                     | ✓                             | ✓                     | ✓                     |
|                       | FRU PS                 | ✓                  | ✓                  | ✓                  | ✓                  | ✓                     | ✓                             | ✓                     | ✓                     |
|                       | Platinum Rated PS*     | ✓                  | ✓                  | ✓                  | ✓                  | ✗(GOLD)               | ✓                             | ✓                     | ✗(GOLD)               |
|                       | FRU Fans               | ✓                  | ✓                  | ✓                  | ✓                  | ✓                     | ✓                             | ✓** *Select SKUs only | ✓                     |

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|----------------|-------------------------|-------------|--------------|----------------------|---------------------|---------|---------------------|---------|---------------|
| Stacking       | High Bandwidth Stacking | 1 Tbps      | 1 Tbps       | 480Gbps              | 480Gbps             | 480Gbps | 320Gbps             | 320Gbps | 160Gbps       |
|                | Stacking SSO            | ✓           | ✓            | ✓                    | ✓                   | ✓       | ✓                   | ✓       | ✓             |
|                | StackPower              | ✓           | ✓            | ✓                    | ✓                   | ✓       | ✗                   | ✗       | ✗             |
| Buffers        | Buffer Size             | 16MB        | 16MB         | 32MB (16MB per core) | 16MB (8MB per core) | 6MB     | 16MB (8MB per core) | 16MB    | 6MB           |
| Serviceability | Blue Beacon             | ✓           | ✓            | ✓                    | ✓                   | ✗       | ✓                   | ✓       | ✗             |
|                | RFID                    | ✓           | ✓            | ✓                    | ✓                   | ✗       | ✓                   | ✓       | ✗             |
| Modern OS      | Model Driven Telemetry  | ✓           | ✓            | ✓                    | ✓                   | ✗       | ✓                   | ✓       | ✗             |
|                | Patching                | ✓           | ✓            | ✓                    | ✓                   | ✓       | ✓                   | ✓       | Cold patching |
|                | GIR                     | ✓           | ✓            | ✓                    | ✓                   | ✗       | ✓                   | ✓       | ✗             |

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|-------------|------------------------|--------------|--------------|---------------|--------------|---------------------------|--------------|--------------|---------------------------|
| Visibility  | Full Flexible Netflow  | ✓            | ✓            | ✓             | ✓            | ✓                         | ✓            | ✓            | ✓                         |
|             | ERSPAN                 | ✓            | ✓            | ✓             | ✓            | ✓<br>(Base ERSPAN)        | ✓            | ✓            | ✓<br>(Base ERSPAN)        |
|             | Netflow                | 64K per ASIC | 64K per ASIC | 128K per ASIC | 64K per ASIC | 24K per ASIC              | 64K per ASIC | 64K per ASIC | 24K per ASIC              |
| Enabled For | AVB                    | ✓            | ✓            | ✓             | ✓            | ✓<br>(UADP 1.1 Platforms) | ✓            | ✓            | ✓<br>(UADP 1.1 Platforms) |
|             | App Hosting/Containers | ✓(Enhanced)  | ✓(Enhanced)  | ✓             | ✓            | ✗                         | ✓            | ✓            | ✗                         |
| Security    | MACsec—256             | ✓            | ✓            | ✓             | ✓            | ✓<br>(UADP 1.1 Platforms) | ✓            | ✓            | ✓<br>(UADP 1.1 Platforms) |
|             | IPsec                  | ✓            | ✓            | ✗             | ✗            | ✗                         | ✗            | ✗            | ✗                         |
|             | Trustworthy System     | ✓            | ✓            | ✓             | ✓            | ✓                         | ✓            | ✓            | ✓                         |
|             | SGT                    | ✓            | ✓            | ✓             | ✓            | ✓                         | ✓            | ✓            | ✓                         |
|             | ETA                    | ✓            | ✓            | ✓             | ✓            | ✗                         | ✓            | ✓            | ✗                         |

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|---------|--------------------------------------------|-----------------|-----------------|-----------------|-----------------|------|-----------------|-----------------|------|
| Qos     | QoS Model                                  | MQC             | MQC             | MQC             | MQC             | MQC  | MQC             | MQC             | MQC  |
|         | Hierarchical QoS                           | ✓               | ✓               | ✓               | ✓               | ✓    | ✓               | ✓               | ✓    |
|         | WRED                                       | ✓ (4 queues)    | ✓ (4 queues)    | ✓ (8 queues)    | ✓ (4 queues)    | ✗    | ✓ (4 queues)    | ✓ (4 queues)    | ✗    |
|         | COPP                                       | ✓<br>(Enhanced) | ✓<br>(Enhanced) | ✓<br>(Enhanced) | ✓<br>(Enhanced) | ✓    | ✓<br>(Enhanced) | ✓<br>(Enhanced) | ✓    |
| Fabric  | SDA Fabric Edge                            | ✓               | ✓               | ✓               | ✓               | ✓    | ✓               | ✓               | ✓    |
|         | SDA Fabric Border                          | ✓               | ✓               | ✓               | ✓               | ✓    | ✓               | ✓               | ✓    |
|         | SDA Fabric CP                              | ✓               | ✓               | ✓               | ✓               | ✓    | ✓               | ✓               | ✓    |
|         | Catalyst 9800 Embedded Wireless Controller | ✓               | ✓               | ✓               | ✓               | ✗    | ✓               | ✓               | ✗    |
|         | FiAB                                       | ✓               | ✓               | ✓               | ✓               | ✗    | ✓               | ✓               | ✗    |

| Feature    |                                                                         | 9300X Fiber               | 9300X Copper              | 9300 — B<br>(Network Advantage*) | 9300                      | 3850                      | 9300L                     | 9300LM                    | 3650                      |
|------------|-------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Forwarding | MAC                                                                     | 32K                       | 32K                       | 64K                              | 32K                       | 32K                       | 32K                       | 32K                       | 32K                       |
|            | IPv4                                                                    | 32K Host, 15K LPM         | 32K Host, 15K LPM         | 48K Host, 64K LPM                | 32K Host, 8K LPM          | 16K Host, 8K LPM          | 32K Host, 8K LPM          | 32K Host, 8K LPM          | 16K Host, 8K LPM          |
|            | IPv6                                                                    | 16K Host, 4K LPM          | 16K Host, 4K LPM          | 24K Host, 32K LPM                | 16K Host, 4K LPM          | 8K Host, 4K LPM           | 16K Host, 4K LPM          | 16K Host, 4K LPM          | 8K Host, 4K LPM           |
|            | Multicast routes                                                        | 8K                        | 8K                        | 16K                              | 8K                        | 4K                        | 8K                        | 8K                        | 4K                        |
|            | IGMP Groups                                                             | 8K                        | 8K                        | 16K                              | 8K                        | 4K                        | 8K                        | 8K                        | 4K                        |
|            | MPLS                                                                    | Advanced MPLS             | Advanced MPLS             | Advanced MPLS                    | Advanced MPLS             | Basic MPLS                | Advanced MPLS             | Advanced MPLS             | Basic MPLS                |
|            | BGP EVPN                                                                | √                         | √                         | √                                | √                         | ✗                         | √                         | √                         | ✗                         |
| ACL        | Security ACL                                                            | 8k                        | 8k                        | 18k                              | 5k                        | 3k                        | 5k                        | 5k                        | 3k                        |
|            | ETA                                                                     | √                         | √                         | √                                | √                         | √                         | √                         | √                         | √                         |
| QoS TCAM   | QoS TCAM<br>* With Network Essentials, the 9300B Scale is same as C9300 | 4000 (4000 per direction) | 4000 (4000 per direction) | 18 000 (18 000 per direction)    | 5000 (5000 per direction) | 3000 (1500 per direction) | 5000 (5000 per direction) | 5000 (5000 per direction) | 3000 (1500 per direction) |
|            | ACL                                                                     | 4000 (000 per direction)  | 4000 (000 per direction)  | 18000 (18000 per direction)      | 5000 (5000 per direction) | 3000 (1500 per direction) | 5000 (5000 per direction) | 5000 (5000 per direction) | 3000 (1500 per direction) |



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