

## GWN7830 Series Aggregation Switches Master Comparison Chart



### Quality of Service

All the models of the GWN7830 series have QoS which gives these products the ability to support default strict priority and prioritize network traffic when present making these products very reliable and high quality. The GWN7830 series also supports deployments in IPv6 and IPv4 networks.



### Network Management

The GWN7830 Series of aggregation switches can be managed using Grandstream's free-of-cost network management platforms. The switches have an embedded controller to manage the switches which include GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform.



### Network Interfaces

The GWN7830 has 2 gigabit ethernet ports, 6 SFP ports and 4 SPF+ ports. The GWN7831 has the highest number of ports with 4 Gigabit ethernet ports, 24 SFP ports and 4 SFP+ ports and the GWN7832 has a total of 12 SPF+ ports.



### Forwarding Rate

All 3 models of the GWN7830 series of aggregation switches have good forwarding rates in relation to the number of ports per switch. The GWN7830 has a forwarding rate of 71.424Mpps, the GWN7831 had a forwarding rate of 95.232Mpps and the GWN7832 has a forwarding rate of 80.352Mpps.



### Pricing

The GWN7830 Series of aggregation switches are very reasonably priced compared to other aggregation switches on the market. The GWN7830 has a list price of \$185, the GWN7831 has a list price of \$389 and the GWN7832 has a list price of \$279.

|  | <br><b>GWN7830</b>  | <br><b>GWN7831</b>  | <br><b>GWN7832</b>   |
|--|---|--|---|
| <b>Gigabit Ethernet Ports</b>                | 2   | 4x Combo   | -   |
| <b>Gigabit SFP Ports</b>                     | 6   | 24   | -   |
| <b>Gigabit SFP+ Ports</b>                    | 4   | 4  | 12  |
|  | Note: Support DAC Cable and must be ≤ 5m  |  |   |
| <b>Maximum No. of Supported Modules</b>      | SM-1G: 6<br>MM-1G: 6<br>RJ45-1G: 3<br>SM-10G: 4<br>MM-10G: 4<br>RJ45-10G: 2   | SM-1G: 24<br>MM-1G: 24<br>RJ45-1G: 12<br>SM-10G: 4<br>MM-10G: 4<br>RJ45-10G: 2   | SM-10G: 12<br>MM-10G: 12<br>RJ45-10G: 6   |
|  | Note: RJ45-1G, RJ45-10G modules must be interval inserted   |  |   |
| <b>Integrated Power Supply</b>               | 30W   | 60W  | 60W   |
| <b>External Redundant Power Supply (RPS)</b> | -   | 12V/60W  | 12V/60W   |
| <b>Auxillary Ports</b>                       | 1x Reset Pinhole  |  |   |
| <b>Total non-blocking throughput</b>         | 48Gbps  | 64Gbps   | 120Gbps   |
| <b>Switching Capability</b>                  | 96Gbps  | 128Gbps  | 240Gbps   |
| <b>Forwarding Rate</b>                       | 71.424Mpps  | 95.232Mpps   | 80.352Mpps  |
| <b>Packet Buffer</b>                         | 12Mb  | 12Mb   | 16Mb  |
| <b>Network Latency</b>                       | <4μs  | <4μs   | <2μs  |
| <b>Switching</b>                             | <ul style="list-style-type: none"> <li>• 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN</li> <li>• VLAN virtual interface</li> <li>• GVRP(pending)</li> </ul>                                    |  |   |
|  | <ul style="list-style-type: none"> <li>• 16K MAC addresses, including static, dynamic and filtering MAC address</li> <li>• 6 link aggregation</li> <li>• Spanning tree, 32 instances for STP/RSTP/MSTP</li> </ul> | <ul style="list-style-type: none"> <li>• 16K MAC addresses, including static, dynamic and filtering MAC address</li> <li>• 14 link aggregation</li> <li>• Spanning tree, 32 instances for STP/RSTP/MSTP</li> </ul> | <ul style="list-style-type: none"> <li>• 32K MAC addresses, including static, dynamic and filtering MAC address</li> <li>• 6 link aggregation</li> <li>• Spanning tree, 64 instances for STP/RSTP/MSTP</li> </ul> |
| <b>QoS/ACL</b>                               | 2K ACL for Ethernet, IPv4 and IPv6  | 2K ACL for Ethernet, IPv4 and IPv6   | 4K ACL for Ethernet, IPv4 and IPv6  |
| <b>Mounting</b>                              | Desktop, Wall-Mount or Rack-Mount(rack-mounting kits included)  |  |   |
| <b>Power Supply LEDs</b>                     | -   | 2x bi-color LEDs for per power supply PWR&RPS  | 2x bi-color LEDs for per power supply PWR&RPS   |
| <b>Data Transferring LEDs</b>                | 12x green-color LEDs  | 32 green-color LEDs  | 12x bi-color LEDs for 1G/10G  |
| <b>Fan</b>                                   | -   | 2  | 2   |
| <b>Dimensions</b>                            | 330mm(L)x175mm(W)x44mm(H)   | 440mm(L)x200mm(W)x44mm(H)  | 440mm(L)x200mm(W)x44mm(H)   |
| <b>Unit Weight</b>                           | 1.91Kg  | 3.15Kg   | 2.67Kg  |
| <b>Compliance</b>                            | FCC, CE, RCM, IC, UKCA  |  |   |
| <b>List Price</b>                            | \$185   | \$389  | \$279   |