

# RES HD XR6 Blades

*20" deep networking rugged blades*

- **Configure and reconfigure as needed**
- **Compact and light weight at 5lbs**
- **Top of rack solution enabling full rack connectivity**
- **Multiple connectivity options ranging from 1 to 100GbE**
- **Compatible with RES HD 2U & 3U and HDslim rugged server chassis**

## Specifications for HDN

High Density Networking Switch (HDN)



Height: 1.6" (41mm, 1 slot)  
 Width: 7 inches (177mm)  
 Depth: 20.3 inches (515mm)  
 Weight: 5lbs (2.27kg)

### 1GBe Ethernet Switch (HDN1)

Ethernet Ports (RJ45): 16 1GbE  
 Other Ports (RJ45): 2 (serial, ethernet management)  
 Network: Layer 2/3  
 Routing: IPv4/IPv6 - IP multicast, VLANs, IETF, IEEE, DSL Forum  
 Quality of Service: QoS IEEE 802.1 priority tagging, DSCP, traffic queues  
 Management: Ethernet (http, telnet, SNMP, and RS232 (CLI))

### 100GbE Switch (HDN100)

Switch: Integrated Mellanox SN2010  
 Ethernet Ports): 18 SFP+/SFP28 10/25GbE +  
 4 splittable QSFP+/QSFP28 40/100GbE ports  
 Other Ports (RJ45): 2 (serial, ethernet management)  
 Throughput: Non-blocking bidirectional, 1.7 Tb/s  
 Latency: 300ns for 100GbE, consistent latency  
 Layer 2/3 Features:  
 10/25/40/50/56/100GbE, Multi chassis LAG (MLAG)  
 802.1W rapid spanning tree, 802.1Q, multiple STP  
 802.3 ad Link Aggregation (LAG) & LACP  
 Jumbo frames (9216 Bytes)  
 IPv4 & IPv6 route maps including BGP4, OSPFv2  
 BFD (BGP, OSPF, static routes), DHCPv4/v6 Relay  
 Router port, int VLAN, NULL interface for routing

Innovation That Matters, and Mercury Systems are trademarks of Mercury Systems, Inc. Other product and company names mentioned may be trademarks and/or registered trademarks of their respective holders. Mercury Systems, Inc. believes this information is accurate as of its publication date and is not responsible for any inadvertent errors. The information contained herein is subject to change without notice.

Copyright © 2020 Mercury Systems, Inc.

6589.00E-0920-DS-XR6HDBladesHDN