EDR-G903 Series

Industrial secure routers with firewall/NAT/VPN



Features and Benefits

- Firewall/NAT/VPN/Router all-in-one
- · Secure remote access tunnel with VPN
- · Stateful firewall protects critical assets
- Inspect industrial protocols with PacketGuard technology
- Easy network setup with Network Address Translation (NAT)
- · Dual WAN redundant interfaces through public networks
- · Support for VLANs in different interfaces
- -40 to 75°C operating temperature range (-T model)
- Security features based on IEC 62443/NERC CIP

Certifications



Introduction

The EDR-G903 is a high-performance, industrial VPN server with a firewall/NAT all-in-one secure router. It is designed for Ethernet-based security applications on critical remote control or monitoring networks, and it provides an Electronic Security Perimeter for the protection of critical cyber assets such as pumping stations, DCS, PLC systems on oil rigs, and water treatment systems. The EDR-G903 Series includes the following cybersecurity features:

- Virtual Private Network (VPN): VPNs are designed to provide users with secure communication links when accessing a private network from the public Internet. They use IPsec (IP Security) server or client mode for encryption and authentication of all IP packets at the network layer to ensure confidentiality and sender authentication.
- Firewall: Controls network traffic between different trust zones. Network Address Translation (NAT), which shields the internal LAN from unauthorized activity from outside hosts.

The EDR-G903's Quick Automation Profile function supports most common fieldbus protocols, including EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, Modbus TCP, and PROFINET. Users can easily create a secure Ethernet Fieldbus network from a user-friendly web UI with a single click. In addition, Moxa's PacketGuard technology (Deep Packet Inspection) helps to filter Modbus TCP commands at OSI layer 7. The wide-temperature range models that are available operate reliably in hazardous, -40 to 75°C environments.

Specifications

| Input/Output Interface | |
|---|--|
| Alarm Contact Channels | 1 relay output with current carrying capacity of 1 A @ 24 VDC |
| Buttons | Reset button |
| Digital Input Channels | +13 to +30 V for state 1 -30 to +3 V for state 0 Max. input current: 8 mA |
| Relay Channels | 1 |
| Ethernet Interface | |
| Combo Ports (10/100/1000BaseT(X) or 100/ 1000BaseSFP+) | 3 |
| Standards | IEEE 802.1Q for VLAN Tagging IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X) IEEE 802.3u for 100BaseT(X) and 100BaseFX |



| WAN Ports, Ru45/Fiber Combo Port1DMZ Ports, Ru45/Fiber Combo Port1LAN Ports, Ru45/Fiber Combo Port1LAN Ports, Ru45/Fiber Combo Port1Ethernet Softwaro FeaturesBack Pressure Fior Control. DDNS. DHCP Server/Client, HTTP, LLDP, OoS/COS/TOS, Simple Simple | | IEEE 802.3x for flow control IEEE 802.3z for 1000BaseSX/LX/LHX/ZX |
|---|----------------------------------|--|
| LAN Ports, RJ45/Fiber Combo Port 1 Ethermet Software Features Back Pressure Flow Control, DDNS, DHCP Server/Client, HTTP, LLDP, OoS/COS/TOS, SMTP, SMMPY/V2C/X, Teinet, TETP Routing Throughput: 40,000 packets per second (max. 500 Mbps) Routing Redundancy VRP Security WITP SSWEPY/V2C/X, Teinet, TETP Security HTTPS/SSL, SSH, Prec, Open/PN (client and server), UDP and TCP Tunnel mode (routing) and Tamoto troinget, TET (server), RADIUS Time Management NTP Server/Client, SNTP Unicast Routing OSFF, RIPVI/V2, Static Route Switch Proporties Market Second S | WAN Ports, RJ45/Fiber Combo Port | 1 |
| Ethemet Software Features Management Back Pressure Flow Control, DDNS, DHCP Server/Client, HTTP, LLDP, QoS/COS/ToS, SMTP, SNMPV1/2C/X3, Teinet, TETP Routing Throughput: 40.000 packets per second (max. 500 Mbps) Routing Redundancy VRRP Security ITTPS/SSL, SSH, IPeac, OpenVPN (client and server), UDP and TCP Tunnel mode (routing) and TAP mode (bridgs), L2TP (server), RADIUS Time Management NTP Server/Client, SNTP Unicast Routing OSPF, RIPVI/V2, Static Route Switch Properties Max. No. of VLANs Max. No. of VLANs 15 DoS and DDoS Protection Modus TCP Modus UDP Friewall Modus TCP Modus UDP Friewall Doos, Ethernet protocols, ICMP. IP address, MAC address, Ports Quick Automation Profiles Doos, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles Router frewall Transparent (bridge) | DMZ Ports, RJ45/Fiber Combo Port | 1 |
| Management Back Pressure Flow Control, DDNS, DHCP Server/Client, HTTP, LLDP, QoS/COS/TOS, SMTP, SMMPV 1/22/V3, Teinet, TTP Routing Throughput: 40,000 packets per second (max. 500 Mbps) Routing Redundancy VRRP Security HTPS/SSL, SSH, IPsec, OpenVPN (client and server), UDP and TCP Tunnel mode (routing) and TAP mode (bridgs), L2TP (server), RADUS Time Management NTP Server/Client, SNTP Unicast Routing OSPF, RIPVI/VZ, Static Route Switch Properties Max. No. of VLANs 15 DoS and DDoS Protection Firewall Modbus TCP Modbus UDP Firewall Modbus TCP Modbus UDP Firewall DDoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DDoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles Router frewall Transparent (bridgs) frewall Throughput Max. 40000 packets per second (max. 500 Mbps) IPsec. VPN Authentication Modbard SAA (SMA-256) RSM (esy is certificate Concurrent VPN Tunnels Max. 4000 packets per second (max. 500 Mbps) Firequiption SAAE-128, AES-128, AES-266, DES | LAN Ports, RJ45/Fiber Combo Port | 1 |
| Routing SMTP, SMMPv1/v2c/v3, Telnet, TFTP Routing Redundancy Throughput: 40,000 packets per second (max. S00 Mbps) Routing Redundancy VRRP Security UDP and TCP Tunnel mode (voting) and TAP mode (bridge), L2TP (server), RADIUS Time Management NTP Server/Client, SNTP Unicast Routing OSPF, RIPV1/V2, Static Route Switch Properties SMTP-Show, Topology, L2TP (server), RADIUS Sol DDOS Protection Topology, L2TP (server), RADIUS Technology APP-Flood, FIN Scan, 10MP-Death, NEWWithout-SYN Scan, NMAP-ID Scan, NMAP-ID Scan, NMAP-ID Scan, SYN/FIN Scan, SYN/FIN Scan, SYN/FIN Scan, SYN-Flood, Xmas Scan Firewall DoSp, Ethernot TOP Depe Packet Inspection Modutus TCP Modubus UDP Router Inspection DONS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DONS, Ethernotar, EtherNet/IP, FOUNDATION Fliedbus, FTP, HTTP, IEC 60870-104, IPsace, L2TP, LONVorks, Modubus TCP, PHTP, IPROFINET, RADIUS, SSH, Tohot Stateful Inspection Router firewall Throughput Max 40000 packets per second (max. 500 Mbps) IPsec VPN Max 40000 packets per second (max. 500 Mbps) Concurrent VPN Tunnels Max 100 IPsec VPN tunnels <td< td=""><td>Ethernet Software Features</td><td></td></td<> | Ethernet Software Features | |
| Routing Redundancy VHRP Security VHRP Security NTTPS/SSL_SSH, IPaec, OpenVPN (client and server), UOP and TCP Tunnel mode (bruting) and TAP mode (bridge), L2TP (server), RADIUS Time Management NTP Server/Client, SNTP Unicast Routing OSPF, RIPV1/V2, Static Route Switch Properties T Max. No. of VLANS 15 DoS and DDS Protection ARP-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, SMAP-ID Scan, NMAP- Zmas Scan, SVI/FIN Scan, SYN/FIN Scan, SYN/FIN Scan, SYN-Flood, Xmas Scan Firewall Modbus UDP Fitter DoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DDS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Riseetion Modus UDP Intergetion Router (frewail Transparent (bridge) firewail Transparent (bridge) firewail Stateful Inspection IPsec VPN MDS and SHA (SHA-25S) (SA (key size: 1024-bit), 2045-bit) X509 32 entificate Stateful Inspection Mozi and SHA (SHA-25S) (SA (key size: 1024- | Management | |
| Security HTTPS/SSL_SSH, IP.ecc. OpenVPN (client and server), UDP and TCP Tunnel mode (routing) and TAP mode (oridge), L2TP (server), RADIUS Time Management NTP Server/Client, SNTP Unicast Routing OSPF, RIPV1/VZ, Static Route Switch Properties Is Max. No. of VLANs 15 DoS and DDoS Protection Pre-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, SMAP-ID Scan, SMAP- Zmas Scan, Null Scan, SYN/FIN Scan, SYN/FIST Scan, SYN-Flood, Zmas Scan Firewall Does, Ethernet protocols, ICMP, IP address, MAC address, Ports Ouick Automation Profiles DDOS, Ethernet protocols, ICMP, IP address, MAC address, Ports Ouick Automation Profiles DDN, EtherCAT, EtherNet/IP, FOUIDNATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, Teinet Stateful Inspection Max. 40000 packets per second (max. 500 Mbps) Firewall Transparent (bridge) firewall Transparent (bridge) strewall Stateful inspection MDS and SHA (SHA-256) RSA (key size: 1024-bit), 2048-bit) XSE09 voe triticate Max. 40000 packets per second (max. 500 Mbps) IPsec VPN Max. 100 IPsec VPN tunnels Max. 100 IPsec VPN tunnels Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Max. 100 IPsec VPN tunnels Protocols IPsec, L2TP (server), PTTP (c | Routing | Throughput: 40,000 packets per second (max. 500 Mbps) |
| Irouting) and TAP mode (bridge), L2TP (server), RADIUSTime ManagementNTP Server/Client, SNTPUnicast RoutingOSPF, RIPV1/V2, Static RouteSwitch Properties15Max. No. of VLANs15DoS and DDoS ProtectionRP-Flood, FIN Scan, ICMP-Death, NEWW(thout-SYN Scan, NMAP-ID Scan, NMAP- Xmas Scan, Null Scan, SYN/RST Scan, SYN-Flood, Xmas ScanFirewallModbus TOPDeep Packet InspectionModbus TOP Modbus UDPFilterDDoS, Ethernet protocols, ICMP, Padress, MAC address, PortsQuick Automation ProfilesRouter firewall Transparent (bridge) firewallThroughputMax. 40000 packets per second (max. 500 Mbps)Pisec VPNMDS and SHA (SHA-256) RSA (key size: 1024-bil) XS4 void cettificationConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsForcoolsIPsec, L2TP (server), PPTP (client)ProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 100 Mbps (Conditions: AES-256, SHA-256) (SSA H256)FortocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 100 Mbps (Conditions: AES-256, SHA-256)ProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 100 Mbps (Conditions: AES-256, SHA-256)ProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 100 Mbps (Conditions: AES-256, SHA-256)ProtocolsMax. 100 Mbps (| Routing Redundancy | VRRP |
| Unicast Routing OSPF, RIPY1/V2, Static Route Switch Properties 15 Max. No. of VLANs 15 DoS and DDoS Protection RRP-Flood, NLMP-Death, NEWWithout-SYN Scan, NMAP-JD Scan, NMAP-JD Scan, NMAP-JD Scan, NMAP-Scan, SYN/FIN Scan, SYN/FIN Scan, SYN/FIOOd, Xmas Scan Firewall Modbus TOP Deep Packet Inspection Modbus TOP Filter DDoS, Ethernet protocols, ICMP. IP address, MAC address, Ports Quick Automation Profiles DNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 600870-104, IPsec, 12TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, Tellnet Stateful Inspection Router firewall Transparent (bridge) firewall Transparent (bridge) firewall SSA (key size: 1024-bit), 2048-bit) SSA (key size: 1024-bit), 2048-bit) <td>Security</td> <td></td> | Security | |
| Switch Properties Max. No. of VLANs 15 DoS and DDoS Protection RP-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, NMAP-ID Scan, NMAP- Xmas Scan, Null Scan, SYN/FIN Scan, SYN-Flood, Xmas Scan Technology ARP-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, SYN-Flood, Xmas Scan Firewall Deep Packet Inspection Modbus TCP Modbus UDP Quick Automation Profiles DDoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DNP, EtherCAT, EtherNet/IP, FOUNDATION Fleidbus, FTP, HTTP, IEC 60870-104, IPsect Prevail Throughput Mouter firewall rransparent (bridge) firewall Throughput Most and SAI (SHA-256) RSA (key size: 1024-bit, 2048-bit) X509 v3 certificate Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Fireryption JES, AES-182, AES-192, AES-256, DES Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 100 Mps (Conditions: AES-256, SHA-256) | Time Management | NTP Server/Client, SNTP |
| Max. No. of VLANs 15 DoS and DDoS Protection ARP-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, NMAP-ID Scan, NMAP- Zmas Scan, Null Scan, SYN/FIN Scan, SYN/FIS Scan, SYN-Flood, Zmas Scan Firewall Modbus TCP Modbus UDP Deep Packet Inspection Modbus TCP Modbus UDP Filter DDoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, Teinet Stateful Inspection Router firewall Transparent (bridge) firewall Throughput Max 40000 packets per second (max. 500 Mbps) Pisec VPN Max. 100 IPsec VPN tunnels Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Fineryption JDES, AES-192, AES-256, DES Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) | Unicast Routing | OSPF, RIPV1/V2, Static Route |
| DoS and DDoS Protection Technology ARP-Flood, FIN Scan, ICMP-Death, NEWWithout-SYN Scan, NMAP-ID Scan, NMAP- Xmas Scan, Null Scan, SYN/FIN Scan, SYN/FIS Scan, SYN/Flood, Xmas Scan Firewall Modbus TCP Modbus UDP Filter DoS, Ethernet protocols, ICMP, IP address, MAC address, Ports Quick Automation Profiles DNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, Teinet Stateful Inspection Router firewall Transparent (bridge) firewall Throughput Max. 40000 packets per second (max. 500 Mbps) IPsec VPN Max. 4000 vackets per second (max. 500 Mbps) Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Forotocols IPsec, L2TP, LonWorks, MAS-2650, RSA (key size: 1024-bit; 2048-bit) 2043-cetificate Protocols Max. 100 IPsec VPN tunnels Authentication MDS and SHA (SHA-256) RSA (key size: 1024-bit; 2048-bit) 2043-cetificate Protocols IPsec, L2TP (server), PPTP (client) Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) Not IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) | Switch Properties | |
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| The second se | DoS and DDoS Protection | |
| Deep Packet InspectionModbus TCP Modbus UDPFilterDDoS, Ethernet protocols, ICMP, IP address, MAC address, PortsQuick Automation ProfilesDNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, TelnetStateful InspectionRouter firewall Transparent (bridge) firewallThroughputMax. 40000 packets per second (max. 500 Mbps)IPsec VPNAuthenticationMD5 and SHA (SHA-256) RSA (key size: 1024-bit, 2048-bit) X:509 v3 certificateConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsEncryption3DES, AES-128, AES-192, AES-256, DESProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 150 Mbps (Conditions: AES-256, SHA-256)NAT | Technology | |
| Nodbus UDPFilterDDoS, Ethernet protocols, ICMP, IP address, MAC address, PortsQuick Automation ProfilesDNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, LTP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, TeinetStateful InspectionRouter firewall rransparent (bridge) firewallThroughputMax. 40000 packets per second (max. 500 Mbps)IPsec VPNAuthenticationMD5 and SHA (SHA-256) RSA (key size: 1024-bit), 2048-bit) x.509 v3 certificateConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsEncryption3DES, AES-128, AES-192, AES-256, DESProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 150 Mbps (Conditions: AES-256, SHA-256)NATHart State Sta | Firewall | |
| Quick Automation ProfilesDNP, EtherCAT, EtherNet/IP, FOUNDATION Fieldbus, FTP, HTTP, IEC 60870-104, IPsec, L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, TeinetStateful InspectionRouter firewall Transparent (bridge) firewallThroughputMax. 40000 packets per second (max. 500 Mbps)IPsec VPNAuthenticationMD5 and SHA (SHA-256) RSA (key size: 1024-bit, 2048-bit) X509 v3 certificateConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsFrotocolsJDES, AES-192, AES-256, DESProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 150 Mbps (Conditions: AES-256, SHA-256)NAT | Deep Packet Inspection | |
| L2TP, LonWorks, Modbus TCP, PPTP, PROFINET, RADIUS, SSH, TelnetStateful InspectionRouter firewall Transparent (bridge) firewallThroughputMax. 40000 packets per second (max. 500 Mbps)IPsec VPNAuthenticationMD5 and SHA (SHA-256) RSA (key size: 1024-bit, 2048-bit) X.509 v3 certificateConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsEncryption3DES, AES-128, AES-192, AES-256, DESProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 150 Mbps (Conditions: AES-256, SHA-256)NAT | Filter | DDoS, Ethernet protocols, ICMP, IP address, MAC address, Ports |
| Transparent (bridge) firewall Throughput Max. 40000 packets per second (max. 500 Mbps) IPsec VPN Authentication MD5 and SHA (SHA-256) RSA (key size: 1024-bit, 2048-bit) X:509 v3 certificate Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Encryption Max. 100 IPsec VPN tunnels Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) | Quick Automation Profiles | |
| IPsec VPN Authentication MD5 and SHA (SHA-256) RSA (key size: 1024-bit, 2048-bit) X:509 v3 certificate Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Encryption Max. 100 IPsec VPN tunnels Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) | Stateful Inspection | |
| AuthenticationMD5 and SHA (SHA-256) RSA (key size: 1024-bit), 2048-bit) x.509 v3 certificateConcurrent VPN TunnelsMax. 100 IPsec VPN tunnelsEncryption3DES, AES-128, AES-192, AES-256, DESProtocolsIPsec, L2TP (server), PPTP (client)ThroughputMax. 150 Mbps (Conditions: AES-256, SHA-256)NAT | Throughput | Max. 40000 packets per second (max. 500 Mbps) |
| RSA (key size: 1024-bit, 2048-bit) X.509 v3 certificate Concurrent VPN Tunnels Max. 100 IPsec VPN tunnels Encryption 3DES, AES-192, AES-256, DES Protocols IPsec, L2TP (server), PPTP (client) Max. 150 Mbps (Conditions: AES-256, SHA-256) NAT | IPsec VPN | |
| Encryption 3DES, AES-192, AES-256, DES Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) | Authentication | RSA (key size: 1024-bit, 2048-bit) |
| Protocols IPsec, L2TP (server), PPTP (client) Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) NAT | Concurrent VPN Tunnels | Max. 100 IPsec VPN tunnels |
| Throughput Max. 150 Mbps (Conditions: AES-256, SHA-256) NAT | Encryption | 3DES, AES-128, AES-192, AES-256, DES |
| NAT | Protocols | IPsec, L2TP (server), PPTP (client) |
| | Throughput | Max. 150 Mbps (Conditions: AES-256, SHA-256) |
| Features 1-to-1, N-to-1, Port forwarding | NAT | |
| | Features | 1-to-1, N-to-1, Port forwarding |



OpenVPN

| OpenVPN | |
|--|--|
| Authentication | User password by MD5 and SHA1 |
| Concurrent VPN Tunnels | Client Mode: max. 2 external servers Server Mode: max. 5 external clients |
| Encryption | AES-128/192/256 CBC, Blowfish CBC, DES CBC, DES-EDE3 CBC |
| Protocols | OpenVPN (client and server), UDP, and TCP, Tunnel mode (routing) and TAP mode (bridge), Tunnel mode (routing) |
| Real-Time Firewall / VPN Event Log | |
| Event Type | Firewall event, System event, VPN event |
| Media | Local storage, SNMP Trap, Syslog server |
| Serial Interface | |
| Console Port | Web/Telnet/SSH/CLI, and RS-232 serial console |
| Environmental Limits | |
| Operating Temperature | EDR-G903: 0 to 60°C (32 to 140°F) EDR-G903-T: -40 to 75°C (-40 to 167°F) |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F) |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |
| Standards and Certifications | |
| Freefall | IEC 60068-2-32 |
| EMC | EN 55032/24 |
| EMI | CISPR 32, FCC Part 15B Class A |
| EMS | IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF |
| Safety | UL 508 |
| Shock | IEC 60068-2-27 |
| Vibration | IEC 60068-2-6 |
| Power Substation | IEC 61850-3 |
| MTBF | |
| Time | 903,311 hrs |
| Standards | Telcordia (Bellcore), GB |
| Warranty | |
| Warranty Period | 5 years |
| Details | See www.moxa.com/warranty |
| Package Contents | |
| Device | 1 x EDR-G903 Series secure router |
| Cable | 1 x RJ45-to-DB9 console cable |
| | |



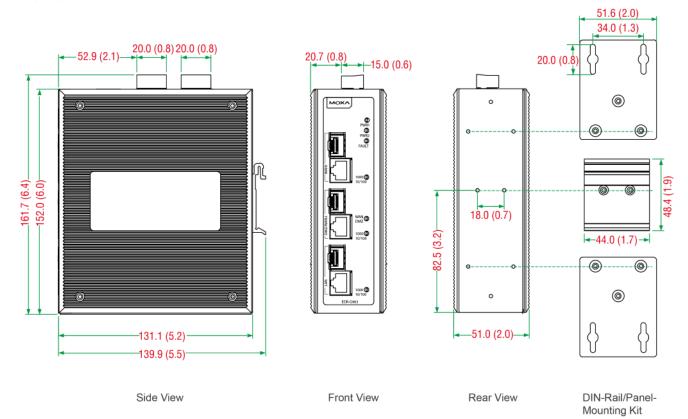
1 x document and software CD 1 x quick installation guide 1 x warranty card

SFP modules need to be purchased separately for use with this product.

Note

Dimensions

Unit: mm (inch)



Ordering Information

| Model Name | 10/100/1000BaseT(X) RJ45 Connector, 100/1000Base SFP Slot Combo WAN Port | 10/100/1000BaseT(X) RJ45 Connector, 100/ 1000Base SFP Slot Combo WAN/DMZ Port | Firewall/NAT/VPN | Operating Temp. |
|------------|---|--|------------------|-----------------|
| EDR-G903 | 1 | 1 | \checkmark | 0 to 60°C |
| EDR-G903-T | 1 | 1 | \checkmark | -40 to 75°C |

Accessories (sold separately)

| Software | |
|--------------|--|
| MXview | Industrial network management software designed for converged automation networks |
| Storage Kits | |
| ABC-01 | Configuration backup and restoration tool for managed Ethernet switches and AWK Series wireless APs/bridges/clients, 0 to 60°C operating temperature |
| SFP Modules | |
| SFP-1FELLC-T | SFP module with 1 100Base single-mode with LC connector for 80 km transmission, -40 to 85°C operating temperature |



| SFP-1FEMLC-T | SFP module with 1 100Base multi-mode with LC connector for 4 km transmission, -40 to 85° C operating temperature |
|-----------------|--|
| SFP-1FESLC-T | SFP module with 1 100Base single-mode with LC connector for 40 km transmission, -40 to 85°C operating temperature |
| SFP-1G10ALC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature |
| SFP-1G10ALC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature |
| SFP-1G10BLC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature |
| SFP-1G10BLC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature |
| SFP-1G20ALC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature |
| SFP-1G20ALC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature |
| SFP-1G20BLC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature |
| SFP-1G20BLC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature |
| SFP-1G40ALC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature |
| SFP-1G40ALC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature |
| SFP-1G40BLC | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature |
| SFP-1G40BLC-T | WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature |
| SFP-1GEZXLC | SFP module with 1 1000BaseEZX port with LC connector for 110 km transmission, 0 to 60°C operating temperature |
| SFP-1GEZXLC-120 | SFP module with 1 1000BaseEZX port with LC connector for 120 km transmission, 0 to 60°C operating temperature |
| SFP-1GLHLC | SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature |
| SFP-1GLHLC-T | SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature |
| SFP-1GLHXLC | SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, 0 to 60°C operating temperature |
| SFP-1GLHXLC-T | SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature |
| SFP-1GLSXLC | SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, 0 to 60°C operating temperature |
| SFP-1GLSXLC-T | SFP module with 1 1000BaseLSX port with LC connector for 500 m transmission, -40 to 85°C operating temperature |
| SFP-1GLXLC | SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature |
| SFP-1GLXLC-T | SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85° C operating temperature |
| SFP-1GSXLC | SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, 0 to 60°C operating temperature |
| SFP-1GSXLC-T | SFP module with 1 1000BaseSX port with LC connector for 300/550 m transmission, -40 to 85°C operating temperature |
| SFP-1GZXLC | SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature |
| SFP-1GZXLC-T | SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature |
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Power Supplies

| DR-120-24 | 120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature |
|--------------------|---|
| DR-4524 | 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50° C operating temperature |
| DR-75-24 | 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature |
| MDR-40-24 | DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70° C operating temperature |
| MDR-60-24 | DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70° C operating temperature |
| Wall-Mounting Kits | |
| WK-51-01 | Wall-mounting kit, 2 plates, 6 screws, 51.6 x 67 x 2 mm |
| Rack-Mounting Kits | |
| RK-4U | 19-inch rack-mounting kit |
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