



Hot Sheet

Nortel Ethernet Routing Switch 5500 Series

The Nortel Ethernet Routing Switch 5500 Series is a set of premium, high-performance, highly efficient, Stackable Switches with comprehensive Layer 3 Routing, advanced security and unified communications features. As a flexible, multi-role platform, the Ethernet Routing Switch 5500 is suitable for Wiring Closet, Data Center aggregation and network Core applications.

The Ethernet Routing Switch 5500 Series (ERS 5500) currently includes five distinct models. Two high-performance 10/100/1000 models offer either 24- or 48-ports including two Combo 1000BASE-T/1000BASE-SFP Uplinks ports. Then there are the high-performance models that deliver Standards-based Power-over-Ethernet (PoE) 10/100/1000 in 24- or 48-ports variants including four Combo 1000BASE-T/1000BASE-SFP Uplinks ports. And lastly, the model that rounds out the portfolio delivers 24 ports of 10/100/1000, including 12 Combo ports of 1000BASE-T/1000BASE-SFP Uplinks ports, plus two 10GBASE-XFP slots (see Table 1 for more information). All models support power resiliency via the external Redundant Power Supply 15 solution.

The Ethernet Routing Switch 5500 Series features an advanced implementation of Nortel's Flexible Advanced Stacking Technology (FAST), also seen on the other Stackable product lines in Nortel's Ethernet Routing Switch portfolio.

A key aspect for the ERS 5500 is that these models are 100% Stack-compatible with the new ERS 5600 Series products. Any combination of ERS 5000 Series units — 5500 or 5600 models — can be Stacked up to eight units high, or to a maximum of 400 ports. When ERS 5500s are Stacking directly together, the Stacking bandwidth is 80Gbps per unit, and therefore up to an extremely impressive 640Gbps for a complete Stack. When 5600 models are adjacent to 5500 models — known as 'Hybrid Stacking' — the Stacking bandwidth is the standard 80Gbps; however, when 5600 models are Stacked together, the capacity increases to 144Gbps, and a pure Stack of ERS 5600 models is an Industry-leading 1.152Tbps.

This unique 'Hybrid Stacking' capability ensures that the Ethernet Routing Switch 5000 Series provides incredible versatility and investment protection; something which is distinctly lacking in many competitive offerings. Being able to mix and match models in a Hybrid Stack from the full ERS 5000 Series range enables Operators to easily and cost-effectively add to existing ERS 5500 deployments; the requirement could be to scale capacity or to add 10G Ethernet Uplinks for the high-performance Wiring Closet and other deployment scenarios.

The Ethernet Routing Switch 5500 Series delivers highly scalable and flexible Power-over-Ethernet, with medium- and high-density models available to simplify deployment in high-intensity Convergence-centric networks. An external redundant power solution ensures both power redundancy and full PoE power.

Nortel Ethernet Routing Switch 5500 Series

- Versatile portfolio of 10/100/1000 Switches with optional Power-over-Ethernet & 10G
- High-capacity, genuinely-resilient Stacking creating a 'Stackable Chassis' capability
- Virtual hot-swap facilitating zero impact unit replacement
- 100% Stack compatibility across the full ERS 5000 Series portfolio
- Dynamic Layer 3 IP Routing & Switch Clustering for high-availability for the small Core
- Comprehensive network access control & denial-of-service prevention
- Graded software licensing to minimize over-investment & to reinforce the pay-as-you-grow
- Energy- & space-efficient

Table 1. Nortel Ethernet Routing Switch 5500 Series

Model	Link & Uplink Ports
ERS 5510-24T	24 x 1000BASE-T, including 2 x Combo 1000BASE-T/1000BASE-SFP
ERS 5510-48T	48 x 1000BASE-T, including 2 x Combo 1000BASE-T/1000BASE-SFP
ERS 5520-24T-PWR	24 x 1000BASE-T with Power-over-Ethernet, including 4 x Combo 1000BASE-T/1000BASE-SFP
ERS 5520-48T-PWR	48 x 1000BASE-T with Power-over-Ethernet, including 4 x Combo 1000BASE-T/1000BASE-SFP
ERS 5530-24TFD	24 x 1000BASE-T, including 12 x Combo 1000BASE-T/1000BASE-SFP, plus 2 x 10GBASE-XFP Slots



Ethernet Routing Switch 5500 Series

All Switches include built-in high-speed Stacking connections that can scale up to 640Gbps of total throughput and are fully compatible with the new ERS 5600 Series models. A full Stack can include up to 8 Switches or up to 384 ports; enabling a highly-versatile solution able to meet port count and port type combinations for every application.

Ordering Information

Switch Models

Order Code	Description
AL1001?04-E5	Ethernet Routing Switch 5510-24T with 24 x 10/100/1000 ports plus 2 x Combo SFP ports. Includes Stacking Cable and Base Software License Kit. Power Cord ordered separately.
AL1001?03-E5	Ethernet Routing Switch 5510-48T with 48 x 10/100/1000 ports plus 2 x Combo SFP ports. Includes Stacking Cable and Base Software License Kit. Power Cord ordered separately.
AL1001?06-E5	Ethernet Routing Switch 5520-24T-PWR with 24 x 10/100/1000 Power-over-Ethernet ports plus 4 x Combo SFP ports. Includes Stacking Cable and Base Software License Kit. Power Cord ordered separately.
AL1001?05-E5	Ethernet Routing Switch 5520-48T-PWR with 48 x 10/100/1000 Power-over-Ethernet ports plus 4 x Combo SFP ports. Includes Stacking Cable and Base Software License Kit. Power Cord ordered separately.
AL1001?07-E5	Ethernet Routing Switch 5530-24TFD with 24 x 10/100/1000 ports, 12 x Combo SFP ports, 2 x XFP 10 Gigabit ports. Includes Stacking Cable and Base Software License Kit. Power Cord ordered separately.

Redundant Power Supply 15

Order code	Description
AA0005017-E5	Redundant Power Supply 15 – Chassis (supports up to 3 600W Power Supplies).
AA0005?19-E5	Redundant Power Supply 15 – 600 Watt Power Supply Module, up to 3 can be installed in RPS 15 Chassis. Requires separate RPS Connecting Cable per RPS 15 Power Supply. Power Cord ordered separately.
AA0005018-E6	Redundant Power Supply 15 – Connecting Cable (1.8m/6ft) for 1 x ERS 4626T-PWR, 4550T-PWR, 4526GTX-PWR, 4548GT-PWR, 5520-24T-PWR, 5520-48T-PWR, 5530 or ES 470-24T-PWR, 470-48T-PWR, (Does NOT require separate DC-DC Converter).
AA0005020-E6	Redundant Power Supply 15 – Long Connecting Cable (1.8m/6ft) for 1x ERS 4626T-PWR, 4550T-PWR, 4526GTX-PWR, 4548GT-PWR, 5520-24T-PWR, 5520-48T-PWR, 5530 or ES 470-24T-PWR, 470-48T-PWR, (Does require separate DC-DC Converter).
AA0005021-E6	Redundant Power Supply 15 – Short Connecting Cable (3m/10ft) for up to 4 x ERS 4526FX, 4526T, 4550T, 4524GT, 4526GTX, 4548GT, 5510-24T, 5510-48T or ES 470-24T, 470-48T. (Does requires separate DC-DC Converter)
AL1904007-E6	DC-to-DC Converter – For installation in the ERS 4526FX, 4526T, 4550T, 4524GT, 4548GT, 5510-24T and 5510-48T, for use with the RPS15 (requires separately orderable cable AA0005020-E6 or AA0005021-E6)
AA0011028	Redundant Power Supply 15 Rack Mount Replacement Kit (for use as Spare)

Maintenance Service Options

Order code	Description
GE6300xxx	Technical Support Service
GL6300xxx	Return & Replace Service
GF6300xxx	Managed Spares Services Pack – Next Business Day
GG6300xxx	Managed Spares Services Pack – Same Business Day
GH6300xxx	Managed Spares Services Pack – 4 Hour (7x24)
GJ6300xxx	Managed On-Site with Spares Services Pack – Next Business Day
GK6300xxx	Managed On-Site with Spares Services Pack – Same Business Day
GN6300xxx	Managed On-Site with Spares Services Pack – 4 Hour (7x24)

SFP/XFP Pluggable Transceiver Options

Order code	Description
AA1419043-E6	1-port 1000BASE-T SFP (RJ-45 Connector)
AA1419013-E5	1-port 1000BASE-SX SFP (LC Connector)
AA1419014-E5	1-port 1000BASE-SX SFP (MT-RJ Connector)
AA1419015-E5	1-port 1000BASE-LX SFP (LC Connector)
AA1419048-E6	1-port 1000BASE-SX DDI SFP (LC Connector)
AA1419049-E6	1-port 1000BASE-LX DDI SFP (LC Connector)
AA1419069-E6	1-port 1000BASE-BX DDI SFP (LC Connector) - 1310nm Wavelength. Must be paired with AA1419070-E6
AA1419070-E6	1-port 1000BASE-BX DDI SFP (LC Connector) - 1490nm Wavelength. Must be paired with AA1419069-E6
AA1419025-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1470nm Wavelength, 40km
AA1419026-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1490nm Wavelength, 40km
AA1419027-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1510nm Wavelength, 40km
AA1419028-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1530nm Wavelength, 40km
AA1419029-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1550nm Wavelength, 40km
AA1419030-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1570nm Wavelength, 40km
AA1419031-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1590nm Wavelength, 40km
AA1419032-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1610nm Wavelength, 40km
AA1419033-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1470nm Wavelength, 70km
AA1419034-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1490nm Wavelength, 70km
AA1419035-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1510nm Wavelength, 70km
AA1419036-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1530nm Wavelength, 70km
AA1419037-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1550nm Wavelength, 70km
AA1419038-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1570nm Wavelength, 70km
AA1419039-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1590nm Wavelength, 70km
AA1419040-E5	1-port 1000BASE-CWDM SFP (LC Connector) - 1610nm Wavelength, 70km
AA1403005-E5	1-port 10GBASE-SR XFP (LC Connector) - 300m over MMF
AA1403007-E6	1-port 10GBASE-LRM XFP (LC Connector) - 220m over MMF
AA1403001-E5	1-port 10GBASE-LR/LW XFP (LC Connector) - 10km over SMF
AA1403003-E5	1-port 10GBASE-ER/EW XFP (LC Connector) - 40km over SMF
AA1403006-E5	1-port 10GBASE-ZR/ZW XFP (LC Connector) - 80km over SMF

Footnotes:

Each ERS 5000 Series Switch ships with the Base Software License kit and a 46cm /1.5ft Stacking Cable included. SFP & XFP Pluggable Transceivers and spare Stacking Cables are sold separately.

Where applicable the seventh character (?) of an Order Code is replaced to indicate the required product nationalization:

- "A" - No Power Cord option
- "B" - Includes European "Schuko" Power Cord option, common in Austria, Belgium, Finland, France, Germany, Netherlands, Norway, & Sweden
- "C" - Includes Power Cord used in UK and Ireland
- "D" - Includes Power Cord used in Japan
- "E" - Includes Power Cord used in North America
- "F" - Includes Power Cord used in Australia, New Zealand, and People's Republic of China

Accessories

Order Code	Description
AL1016001	Ethernet Routing Switch 5000 Series Advanced License Kit, for 1 Switch or Stack. Enabled features: ECMP, OSPF, PIM-SM, SMLT & VRRP. One License required per Switch or Stack.
AL1016002	Ethernet Routing Switch 5000 Series Advanced License 10-pack, for 10 Switches or Stacks. Enabled features: ECMP, OSPF, PIM-SM, SMLT & VRRP. One License required per Switch or Stack.
AL1016003	Ethernet Routing Switch 5000 Series Advanced License 50-pack, for 50 Switches or Stacks. Enabled features: ECMP, OSPF, PIM-SM, SMLT & VRRP. One License required per Switch or Stack.
AL1016004	Ethernet Routing Switch 5000 Series Advanced License 100-pack, for 100 Switches or Stacks. Enabled features: ECMP, OSPF, PIM-SM, SMLT & VRRP. One License required per Switch or Stack.
AL2018011-E6	Stacking Cable 46cm/1.5ft for ERS 5500 Series (for use as Spare)
AL2018009-E6	Stacking Cable 1.0m/3ft for ERS 5500 Series (Spare or for use as Return Cable)
AL2018013-E6	Stacking Cable 3.0m/10ft for ERS 5500 Series (Spare or for use as Return Cable)
AL2018014-E6	Stacking Cable 5.0m/16.4ft for ERS 5500 Series (Spare or for use as Return Cable)

Technical Specifications

- 1000BASE-T Ethernet with auto-negotiation, delivering backwards compatibility to support 10/100Mbps devices, supporting 24 or 48 ports per Switch, available with and without PoE
- 1000BASE-X Ethernet available on ERS 5510 (2 Slots), ERS 5520 (4 Slots), & ERS 5530-24TFD (12 Slots), supporting T, SX, LX, XD & ZX CWDM, BX Pluggable Transceivers
- 10GBASE-X Ethernet available on the ERS 5530-24TFD, supporting SR, LRM, LR/LW, ER/EW, and ZR/ZW XFP Pluggable Transceivers
- Flexible Advanced Stacking Technology: supporting up to 8 ERS 5000 Series Switches and/or up to 384 ports per Stack
- Stacking ports: 2 built-in FAST640 Stacking connectors per Switch
- Total Stacking capacity: 80Gbps per Switch & up to 640Gbps
- Switching Fabric capacity: 80 – 192Gbps per Switch
- Packet throughput: 35.7 – 71.4Mpps
- Latency & Jitter: 9µsec & 12 – 14 µsec
- Concurrent VLANs: 256
- Maximum MAC Addresses: 16,000
- Jumbo Frames: Gigabit & 10 Gigabit ports
- Power Resiliency: Redundant Power Supply 15
- Rack consumption: 1RU per Switch
- IEEE 802.3af Power-over-Ethernet
- RFC 768 User Datagram Protocol
- RFC 783 Trivial File Transfer Protocol (TFTP)
- RFC 791/950 Internet Protocol (IP)
- RFC 792 Internet Control Message Protocol (ICMP)
- RFC 793 Transmission Control Protocol
- RFC 826 Address Resolution Protocol (ARP)
- RFC 854 Telnet Server and Client
- RFC 894 IP Datagrams over Ethernet Networks
- RFC 951/1542 BOOTP
- RFC 1058 Routing Information Protocol
- RFC 1112 Internet Group Management Protocol v1
- RFC 1157 Simple Network Management Protocol (SNMP)
- RFC 1213 Management Information Base for Network Management of TCP/IP-based Internets
- RFC 1215 SNMP Traps Definition
- RFC 1253 OSPF Version 2 Management Information Base
- RFC 1271/1757 / 2819 Remote Network Monitoring Management Information Base
- RFC 1350 TFTP Protocol
- RFC 1354 IP Forwarding Table MIB
- RFC 1361/1769 Simple Network Time Protocol (SNTP)
- RFC 1442 Simple Network Management Protocol (SNMPv2)
- RFC 1450 MIBv2 for SNMPv2
- RFC 1492 Access Control Protocol, aka TACACS
- RFC 1493/4188 Bridge MIB
- RFC 1519 Classless Inter-Domain Routing (CIDR)
- RFC 1541 Dynamic Host Configuration Protocol
- RFC 1542 Bootstrap Protocol (Clarifications and Extensions)
- RFC 1573/2863 Interface MIB
- RFC 1587 OSPF NSSA Option
- RFC 1591 Domain Name System
- RFC 1643/2665 Ethernet MIB
- RFC 1724 RIP MIB
- RFC 1812 IPv4 Router Requirements
- RFC 1850 OSPFv2 MIB
- RFC 1866 HyperText Markup Language v2
- RFC 1901 Introduction to Community-based SNMPv2
- RFC 1905/3416 SNMP
- RFC 1906/3417 SNMP Transport Mappings
- RFC 1907/3418 SNMP MIB
- RFC 1945 HTTP v1.0
- RFC 2011 SNMP v2 MIB for IP
- RFC 2012 SNMP v2 MIB for TCP
- RFC 2013 SNMP v2 MIB for UDP
- RFC 2131 DHCP
- RFC 2138/2865 RADIUS Authentication
- RFC 2139/2866 RADIUS Accounting
- RFC 2030 Simple Network Time Protocol (SNTP) Version 4 for IPv4, IPv6 and OSI
- RFC 2096 IP Forwarding Table MIB
- RFC 2236/3376 Internet Group Management Protocol v2/ v3
- RFC 2328 Open Shortest Path First v2
- RFC 2338/3768 Virtual Router Redundancy Protocol
- RFC 2362 Protocol Independent Multicast — Sparse Mode
- RFC 2452 IPv6 TCP MIB
- RFC 2453 Routing Information Protocol v2
- RFC 2454 IPv6 UDP MIB
- RFC 2460 IPv6 (for switch management only)
- RFC 2463 ICMPv6
- RFC 2464 Transmission of IPv6 over Ethernet
- RFC 2465 IPv6 MIB
- RFC 2466 ICMPv6 MIB
- RFC 2474 Differentiated Services Support
- RFC 2475 An Architecture for Differentiated Service
- RFC 2526 Reserved IPv6 Subnet Anycast Addresses
- RFC 2570/3410 SNMPv3
- RFC 2571/3411 SNMP Frameworks
- RFC 2572/3412 SNMP Message Processing
- RFC 2573/3413 SNMPv3 Applications
- RFC 2574/3414 SNMPv3 USM

Standards Compliance

- IEEE 802.1D Spanning Tree
- IEEE 802.1p Priority Queues
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Tree Groups
- IEEE 802.1v VLAN Classification
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1X Port Based Network Access Control (Extensible Authentication Protocol)
- IEEE 802.1AB Link Layer Discovery Protocol
- IEEE 802.1AB LLDP MED & Location TLV
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3i 10BASE-T Auto-negotiation
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3u Auto-Negotiation on Twisted Pair (ISO/IEC 8802-3, Clause 28)
- IEEE 802.3x Flow Control
- IEEE 802.3z Gigabit Ethernet (1000BASE-T)
- IEEE 802.3ab 1000BASE-X
- IEEE 802.3ad Link Aggregation
- IEEE 802.3ae 10Gb/s Ethernet

Technical Specifications — continued

- RFC 2575/3415 SNMPv3 VACM
- RFC 2576/3584 Co-existence of SNMP v1/v2/v3
- RFC 2597 Assured Forwarding PHB Group
- RFC 2598 An Expedited Forwarding PHB
- RFC 2660 HTTPS (Secure Web Server)
- RFC 2665 Ethernet MIB
- RFC 2674/4363 Q-Bridge MIB
- RFC 2737 Entity MIBv2
- RFC 2787 VRRP MIB
- RFC 2819 RMON MIB
- RFC 2868 RADIUS Attributes for Tunnel Protocol Support
- RFC 2925 Managed objects for Ping, Traceroute & Lookup
- RFC 2932 IPv4 Multicast routing MIB
- RFC 2992 ECMP Algorithm
- RFC 3046 DHCP Relay agent
- RFC 3101 OSPF Not-So-Stubby Area (NSSA) Option
- RFC 3576 IEEE 802.1X Security Extensions
- RFC 3621 Power Ethernet MIB
- RFC 3748 Extensible Authentication Protocol (EAP)
- RFC 3826 Advanced Encryption Standard (AES) Cipher Algorithm in SNMP
- RFC 3917 Requirements for IP Flow Information Export (IPFIX)
- RFC 4251 SSH Protocol architecture
- RFC 4252 SSH Authentication Protocol
- RFC 4253 SSH Transport protocol
- RFC 4254 SSH Connection protocol
- Virtual Link Aggregation Control Protocol (VLACP)
- Nortel Multiple Spanning Tree Groups
- DSCP-based Recognition, Marking and Re-Marking
- Ingress & Egress Port Mirroring
- Many-to-Many Port Mirroring
- Broadcast & Multicast Rate Limiting per Port
- ICMPv1/v2/v3 Snooping
- PIM-SM Multicast Routing
- Automatic Detection Automatic Configuration (ADAC)
- Customizable Auto-Negotiation Advertisements (CANA)
- 802.1X Single Host Single Authentication
- 802.1X Multiple Host Multiple Authentication
- 802.1X Guest VLAN
- 802.1X Single Host Multiple Authentication
- 802.1X Non-EAP (NEAP) access
- Nortel Secure Network Access (SNA) support
- ASCII Configuration File
- Web, NNCLI, DM
- SSHv2 and SNMPv3 Secure Management support
- Single IP Address for Stack Management
- RADIUS and TACACS+ Management Authentication
- Resilient Fail-Safe Stacking
- Automatic Unit Replacement (Configuration and Software)
- Stack Health Check
- Backup and Restore Switch Software & Configuration Files
- USB Interface for Configuration & Software Storage

Key Features

- IP Local & Static Routing, DHCP Relay, UDP Forwarding, Proxy ARP, RIP, OSPF, VRRP
- DHCP Snooping
- Dynamic ARP Inspection
- IP Source Guard
- BPDU Filter/ BPDU Guard
- Distributed Link Aggregation Groups (IEEE 802.3ad LAG)
- Multi-Link Trunking (32 Groups of up to 8 Trunks)
- Distributed Multi-Link Trunking (DMLT)
- Switch Clustering (Nortel's Split Multi-Link Trunking)

Power-over-Ethernet Specifications

- IEEE 802.3af-compliant with Power classification support
- PoE Power delivered over Signal Pair
- Maximum 15.4 Watts per port

Electrical Specification

- Power Supply: AC 100-240V, 50-60Hz
- Input Current at 110v: 1.3 – 6.5A
- Input Current at 220v: 0.65 – 3.5A
- Max Rated Power Consumption: 125 – 600W

Dimensions

- Width: 438.2mm/17.25in
- Height: 1RU 44.5mm/1.75in
- Depth: 387.4mm/15.25in
- Weight: 5.8kg/12.78lb – 7.13kg/15.7lb

Environmental Specifications

- Operating temperature: 0° to 50° C
- Storage temperature: -25° to 55° C
- Relative humidity: 10 to 90% non-condensing
- Peak noise level: 56dBA
- Thermal rating: 460 – 850BTU/hr
- Calculated MTBF: 161,379 – 210,361hrs

Safety Agency Approvals

- IEC 60950 International CB Certification
- EN 60950 European Certification
- UL60950 US certification
- CSA22.2, #60950 Canadian Certification
- NOM Mexican Certification

Electromagnetic Emissions & Immunity

- CISPR22, Class A/CISPR24 International
- EN55022, Class A/EN55024 European
- FCC, Part 15, Class A US Certification
- ICES-003, Class A Canadian Certification
- AN/NZS 3548 Australian/NZ Certification
- BSMI – Taiwan – CNS 13438, Class A
- MIC – Korea – MIC, No. 2001-116
- VCCI Class A Japanese Certification

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