

Juniper Networks J2300/J4300/J6300 Services Router



Juniper J-series routers offer a wide variety of platforms with flexible interfaces that deliver secure reliable network connectivity to remote, branch, and regional offices. The J-series runs modular JUNOS software which offers many advanced services (MPLS, IPv6, QoS, multicast, etc) and security (stateful firewall and IPSec VPN) by default. J-series routers are forward-looking platforms designed to support a diverse set of network applications, while providing unmatched reliability, performance and value for the enterprise.

The following features and functionality are supported on J2300, J4300, and J6300 products

Protocols IPv4, IPv6, ISO CLNS, DLSw*	Security Network attack detection DOS & DDOS protections (Anomaly-based) Tunnels (GRE, IP in IP, IPSec) DES (56-bit), 3DES (168-bit), AES (256-bit) encryption MD5 and SHA-1 authentication Prevent replay attack Stateful firewall filters	System Management JUNOScope manager J-Web browser interface Service Deployment System (SDX) JUNOScript XML API JUNOS CLI (console, telnet, SSH) SNMPv2 and SNMPv3
Routing and Multicast OSPF BGP BGP Router Reflector* RIPv2 Static routes S-IS Multicast (IGMPv3, PIM, SDP, DVMRP, Source-specific) MPLS IPv6 Multicast Listener Discovery (MLD)	Voice Transport FRF.12 Link Fragmentation and Interleaving (LFI) Compressed Real-Time Protocol (CRTP)	SLA and Measurement Real-time Performance Monitoring Top talkers (sessions, packets, bandwidth usage) J-Flow flow monitoring and accounting services*
IP Address Management Static DHCP (client & server) DHCP relay	High Availability Virtual Router Redundancy Protocol (VRRP) Graceful restart Dial Backup	Logging and Monitoring Syslog Traceroute
Encapsulations Ethernet (MAC + Tagged) PPP (Synch) Frame Relay HDLC Serial (RS-232, RS-449, X.21, V.35, EIA-530) 802.1q support MLPPP MLFR (FRF.15, FRF.16) PPPoE DLSw*	IPv6 OSPFv3 Multicast Listener Discovery (MLD) BGP QoS IPv4 Tunneling 6PE	Administration External administrator database (RADIUS/LDAP/SecureID) Auto Configuration Configuration rollback Rescue configuration with button Commit confirm for changes Auto Record for diagnostics Software upgrades
Traffic Management Marking, policing & shaping Class based queuing with prioritization WRED Queuing based on VLAN/DLCI/Interface/Bundles/Filters	MPLS Layer 2 VPN Layer 3 VPN Label Distribution Protocol (LDP) Resource Reservation Protocol (RSVP) Circuit Cross-Connect (CCC) Translation Cross Connect (TCC)	Certifications Safety Certifications UL, CUL, CSA, CB EMC Certifications FCC Part 15 Class B, BSMI Class B, CE class B, A-Tick Class B, VCCI Class B FCC Part 68, Industry Canada CS-03 ETSI EN-300386-2 Telecommunication Network Equipment Electromagnetic Compatibility Requirements * Requires additional license. See page 2 for more information

	Juniper Networks J2300	Juniper Networks J4300	Juniper Networks J6300
Platform			
Form factor	Fixed	Modular	Modular
Card slots	N/A	6 open slots	6 open slots
Memory min/max (DRAM)	256 MB / 1 GB	256 MB / 1 GB	256 MB / 1 GB
Memory slots	2	2	2
Compact flash min/max - primary	256 MB / 1 GB	256 MB / 1 GB	256 MB / 1 GB
Compact flash min/max - secondary	N/A	128 MB / 1 GB	128 MB / 1 GB
ECC Memory	No	No	Yes
USB port for external storage	Yes	Yes	Yes
Mounting and rack size	desktop, wall, or rack (19 inch)	front or center rack (19 inch)	front or center rack (19 inch)

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Interfaces			
LAN ports	2xFE fixed ports	2xFE fixed ports	2xFE fixed ports
Primary fixed interfaces	2xT1 or 2xE1 or 2xG.SHDSL or 2xSerial (Opt. integrated ISDN BRI)	N/A	N/A
Physical Interface Modules (PIM)	N/A	2xT1, 2xE1, 2xSerial, 2xFE, 1xADSL, 4xISDN, 2xG.SHDSL	2xT1, 2xE1, 2xSerial, 2xFE, DS3/E3, 1xADSL, 4xISDN, 2xG.SHDSL

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Physical			
Power supply	100-240V, 47-63Hz, 1/0.5A	100-240V, 47-63Hz, 1/0.5A	100-240V, 47-63Hz, 1/0.5A
Redundant power	No	No	Optional
Operating temperature	32 to 104 F, 0 to 40 C	32 to 104 F, 0 to 40 C	32 to 104 F, 0 to 40 C
Storage temperature	-40 to 158 F, -40 to 70 C	-40 to 158 F, -40 to 70 C	-40 to 158 F, -40 to 70 C
Relative humidity (operating)	5 to 95% non-condensing	5 to 95% non-condensing	5 to 95% non-condensing
Weight	11.8 lbs	19.5 - 22.8 lbs	19.5 - 22.8 lbs
Height	1.75 inches	3.5 inches	3.5 inches
Width	17.25 inches	17.0 inches	17.0 inches

Ordering Information

J6300 Platforms	Description	Model Number
Modular 6-PIM-slot form (DS3 deployments)	Six modular PIM slots Two fixed FE ports Optional redundant power supplies*	J6300-2FEL-S-1AC-US/UK/CH/AU/JA/IT/EU
DC Modular 6-PIM-slot form (DS3 deployments)	Six modular PIM slots Two fixed FE ports Optional redundant power supplies*	J6300-2FEL-S-1DC-TAA
J4300 Platforms	Description	Model Number
Modular 6-PIM-slot form (8xT1/E1 deployments)	Six modular PIM slots Two fixed FE ports	J4300-2FEL-S-AC AU/CH/EU/IT/JA/UK/US/TAA
DC Modular 6-PIM-slot form (8xT1/E1 deployments)	Six modular PIM slots Two fixed FE ports DC power supply	J4300-2FEL-S-DC-TAA
J2300 Platforms	Description	Model Number
E1 fixed form-factor	Two fixed E1 ports Two fixed FE ports	J2300-1E2FEL-S-AC-EU/IT/UK/TAA
E1 fixed form-factor with integrated ISDN BRI-S/T backup	Two fixed E1 ports Two fixed FE ports 1 ISDN BRI-S/T port	J2300-1E2FE1BL-S-AC-AU/EU/IT/UK
DC E1 fixed form-factor	Two fixed E1 ports Two fixed FE ports DC power supply	J2300-1E2FEL-S-DC-TAA
Serial fixed form-factor	Two fixed serial ports Two fixed FE ports	J2300-1S2FEL-S-AC-AU/CH/EU/IT/JA/UK/US/TAA
Serial fixed form-factor with integrated ISDN BRI-S/T backup	Two fixed serial ports Two fixed FE ports 1 ISDN BRI-S/T port	J2300-1S2FE1BL-S-AC-AU/CH/EU/IT/JA/UK
Serial fixed form-factor with integrated ISDN BRI-U backup	Two fixed serial ports Two fixed FE ports 1 ISDN BRI-U port	J2300-1S2FE1BL-S-AC-US
DC serial fixed form-factor	Two fixed serial ports Two fixed FE ports DC power supply	J2300-1S2FEL-S-DC-TAA
T1 fixed form-factor	Two fixed T1 ports Two fixed FE ports	J2300-1T2FEL-S-AC-AU/CH/JA/US/TAA
T1 fixed form-factor with integrated ISDN BRI-U backup	Two fixed T1 ports Two fixed FE ports 1 ISDN BRI-U port	J2300-1T2FE1BL-S-AC-US
DC T1 fixed form-factor	Two fixed T1 ports Two fixed FE ports DC power supply	J2300-1T2FEL-S-DC-TAA
2- or 4-wire G.SHDSL fixed form-factor	Two fixed 2-wire G.SHDSL ports or One fixed 4-wire G.SHDSL port Two fixed FE ports	J2300-2SD2FEL-S-AC
2- or 4-wire G.SHDSL fixed form-factor with integrated ISDN BRI-S/T backup	Two fixed 2-wire G.SHDSL ports or One fixed 4-wire G.SHDSL port Two fixed FE ports 1 ISDN BRI-S/T port	J2300-2SD2FE1BL-S-AC-EU

*J6300 routers ship with a single power supply. A second power supply can be ordered as a spare

Pluggable Interface Modules

Two-port serial PIM, with two-port serial license
 Two-port T1 PIM, with two-port T1 license
 Two-port E1 PIM, with two-port E1 license
 One-port DS3 PIM, with one-port DS3 license
 Two-port FE PIM, with two-port FE license
 One-port E3 PIM
 One-port ADSL Annex A PIM
 One-port ADSL Annex B PIM
 Four-port ISDN BRI - S Interface
 Four-port ISDN BRI - U Interface
 Two-port 2-wire or one-port 4-wire G.SHDSL PIM

Model Number

JX-2Serial-S
 JX-2T1-RJ48-S
 JX-2E1-RJ48-S
 JX-1DS3-S
 JX-2FE-TX-S
 JX-1E3-S
 JX-1ADSL-A-S
 JX-1ADSL-B-S
 JX-4BRI-S-S
 JX-4BRI-U-S
 JX-2SHDSL-S

JUNOS Release

JUNOS 7.0
 JUNOS 7.0
 JUNOS 7.0
 JUNOS 7.0
 JUNOS 7.0
 JUNOS 7.3
 JUNOS 7.3
 JUNOS 7.3
 JUNOS 7.3
 JUNOS 7.3
 JUNOS 7.4

Compact Flash

128M Compact Flash
 256M Compact Flash
 512M Compact Flash
 1G Compact Flash

JX-CF-128M-S
 JX-CF-256M-S
 JX-CF-512M-S
 JX-CF-1G-S

Additional Memory

256M Memory for J2300
 512M Memory for J2300
 256M Memory for J4300
 512M Memory for J4300
 256M Memory for J6300
 512M Memory for J6300

J2300-MEM-256M-S
 J2300-MEM-512M-S
 J4300-MEM-256M-S
 J4300-MEM-512M-S
 J6300-MEM-256M-S
 J6300-MEM-512M-S

Licenses

Advanced BGP License
 J-Flow License
 DLSw License for J2300
 DLSw License for J4300
 DLSw License for J6300

JX-BGP-ADV-LTU
 JX-JFlow-LTU
 J2300-DLSW-LTU
 J4300-DLSW-LTU
 J6300-DLSW-LTU

Accessories

EIA530 cable (DCE)
 EIA530 cable (DTE)
 RS232 cable (DCE)
 RS232 cable (DTE)
 RS449 cable (DCE)
 RS449 cable (DTE)
 V.35 cable (DCE)
 V.35 cable (DTE)
 X.21 cable (DCE)
 X.21 cable (DTE)
 AC Power Supply for J6300
 DC Power Supply for J6300

JX-CBL-EIA530-DCE
 JX-CBL-EIA530-DTE
 JX-CBL-RS232-DCE
 JX-CBL-RS232-DTE
 JX-CBL-RS449-DCE
 JX-CBL-RS449-DTE
 JX-CBL-V.35-DCE
 JX-CBL-V.35-DTE
 JX-CBL-X.21-DCE
 JX-CBL-X.21-DTE
 J6300-PWR-AC-S
 J6300-PWR-DC-S

Software Updates

JUNOS for J-series - Domestic
 JUNOS for J-series - Worldwide

JX-JUNOS-S
 JX-JUNOS-WW-S



CORPORATE HEADQUARTERS
 AND SALES HEADQUARTERS
 FOR NORTH AND SOUTH AMERICA
 Juniper Networks, Inc.
 1194 North Mathilda Avenue
 Sunnyvale, CA 94089 USA
 Phone: 888-JUNIPER (888-586-4737)
 or 408-745-2000
 Fax: 408-745-2100
 www.juniper.net

EAST COAST OFFICE
 Juniper Networks, Inc.
 10 Technology Park Drive
 Westford, MA 01886-3146 USA
 Phone: 978-589-5800
 Fax: 978-589-0800

ASIA PACIFIC REGIONAL
 SALES HEADQUARTERS
 Juniper Networks (Hong Kong) Ltd.
 Suite 2507-11, Asia Pacific Finance Tower
 Citibank Plaza, 3 Garden Road
 Central, Hong Kong
 Phone: 852-2332-3636
 Fax: 852-2574-7803

EUROPE, MIDDLE EAST, AFRICA
 REGIONAL SALES HEADQUARTERS
 Juniper Networks (UK) Limited
 Juniper House
 Guildford Road
 Leatherhead
 Surrey, KT22 9JH, U. K.
 Phone: 44(0)1372-385500
 Fax: 44(0)1372-385501

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