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*

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)

IP Address Management
- Static
- DHCP (client & server)
- DHCP relay

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*

Traffic Management
- Marking, policing & shaping
- Class based queuing with prioritization
- WRED
- Queuing based on VLAN/DLCI/Interface/Bundles/Filters

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

Voice Transport
- FRF.12
- Link Fragmentation and Interleaving (LFI)
- Compressed Real-Time Protocol (CRTP)

High Availability
- Virtual Router Redundancy Protocol (VRRP)
- Graceful restart
- Dial Backup

IPv6
- OSPFv3
- Multicast Listener Discovery (MLD)
- BGP
- QoS
- IPv4 Tunneling
- 6PE

MPLS
- Layer 2 VPN
- Layer 3 VPN
- Label Distribution Protocol (LDP)
- Resource Reservation Protocol (RSVP)
- Circuit Cross-Connect (CCC)
- Translation Cross Connect (TCC)

System Management
- JUNOScope manager
- J-Web browser interface
- Service Deployment System (SDX)
- JUNOScript XML API
- JUNOS CLI (console, telnet, SSH)
- SNMPv2 and SNMPv3

SLA and Measurement
- Real-time Performance Monitoring
- Top talkers (sessions, packets, bandwidth usage)
- J-Flow flow monitoring and accounting services*

Logging and Monitoring
- Syslog
- Traceroute

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

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 / 1GB
Memory slots	2	2	2
Compact flash min/max - primary	256 MB / 1GB	256 MB / 1GB	256 MB / 1GB
Compact flash min/max - secondary	N/A	128 MB / 1GB	128 MB / 1GB
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)
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
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	Model Number	JUNOS Release
Two-port serial PIM, with two-port serial license	JX-2Serial-S	JUNOS 7.0
Two-port T1 PIM, with two-port T1 license	JX-2T1-RJ48-S	JUNOS 7.0
Two-port E1 PIM, with two-port E1 license	JX-2E1-RJ48-S	JUNOS 7.0
One-port DS3 PIM, with one-port DS3 license	JX-1DS3-S	JUNOS 7.0
Two-port FE PIM, with two-port FE license	JX-2FE-TX-S	JUNOS 7.0
One-port E3 PIM	JX-1E3-S	JUNOS 7.3
One-port ADSL Annex A PIM	JX-1ADSL-A-S	JUNOS 7.3
One-port ADSL Annex B PIM	JX-1ADSL-B-S	JUNOS 7.3
Four-port ISDN BRI - S Interface	JX-4BRI-S-S	JUNOS 7.3
Four-port ISDN BRI - U Interface	JX-4BRI-U-S	JUNOS 7.3
Two-port 2-wire or one-port 4-wire G.SDHSL PIM	JX-2SHDSL-S	JUNOS 7.4

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

Additional Memory
256M Memory for J2300	J2300-MEM-256M-S
512M Memory for J2300	J2300-MEM-512M-S
256M Memory for J4300	J4300-MEM-256M-S
512M Memory for J4300	J4300-MEM-512M-S
256M Memory for J6300	J6300-MEM-256M-S
512M Memory for J6300	J6300-MEM-512M-S

Licenses
Advanced BGP License	JX-BGP-ADV-LTU
J-Flow License	JX-JFlow-LTU
DLSw License for J2300	J2300-DLSW-LTU
DLSw License for J4300	J4300-DLSW-LTU
DLSw License for J6300	J6300-DLSW-LTU

Accessories
EIA530 cable (DCE)	JX-CBL-EIA530-DCE
EIA530 cable (DTE)	JX-CBL-EIA530-DTE
RS232 cable (DCE)	JX-CBL-RS232-DCE
RS232 cable (DTE)	JX-CBL-RS232-DTE
RS449 cable (DCE)	JX-CBL-RS449-DCE
RS449 cable (DTE)	JX-CBL-RS449-DTE
V.35 cable (DCE)	JX-CBL-V.35-DCE
V.35 cable (DTE)	JX-CBL-V.35-DTE
X.21 cable (DCE)	JX-CBL-X.21-DCE
X.21 cable (DTE)	JX-CBL-X.21-DTE
AC Power Supply for J6300	J6300-PWR-AC-S
DC Power Supply for J6300	J6300-PWR-DC-S

Software Updates
JUNOS for J-series - Domestic	JX-JUNOS-S
JUNOS for J-series - Worldwide	JX-JUNOS-WW-S

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