Juniper Networks J2300/J4300/J6300 Services Router

To meet the complex demands of widely-distributed, business-critical applications the J-series Services Router integrates the advanced JUNOS modular operating system with hardware that leverages the innovation and economics of standard processor technology. The modular, multithreaded JUNOS is a fundamentally different architecture approach than legacy, single-threaded OS systems. By running multiple functions in parallel, JUNOS delivers high reliability with the flexibility to enable advanced routing, Quality of Service (QoS), security and management policies, along with monitoring and measurement functions, while maintaining high levels of system performance. Further, JUNOS with J-series eases operations through innovative tools and features to simplify deployment and ease remote management. J-series is a good fit for customers supporting critical networking infrastructures where meeting stringent uptime objectives and specific application performance needs are high priorities.

	Juniper Networks J2300/J4300/J6300
Internet Protocols	
IPv4	Yes
IPv6[2]	Yes
Routing and Multicast	
OSPF	Yes
BGP	Yes
RIPv2	Yes
Static routes	Yes
IS-IS	Yes
Multicast (IGMPv3,PIM,SDP,DVRMRP,Single Source)	Yes
IP Address Management	
Static	Yes
DHCP	Yes
DHCP server	Yes
DHCP relay	Yes
Encapsulations	
Ethernet (MAC+ Tagged)	Yes
PPP (Synch)	Yes
Frame Relay	Yes
HDLC	Yes
Serial (RS-232, RS-449,X.21,V.35,EIA-530)	Yes
802.1q support	Yes
MLPPP[2]	Yes
MLFR (FRF.15, FRF.16)[2]	Yes
MPLS[3]	Yes
Traffic Management	
Policing & Shaping	Yes
Class Based Queuing with Prioritization	Yes
WRED	Yes
Queuing based on VLAN/DLCI/Interface/Bundles	Yes
Security	
Network attack detection	Yes
DOS & DDOS protections	Yes
Tunnels (GRE, IP in IP, IPSec)	Yes
DES (56-bit), 3DES (168 bit) encryption	Yes
MD5 and SHA-1 authentication	Yes
Prevent replay attack	Yes
Stateful packet filters	Yes
Voice Support	
FRF.12[2]	Yes
LFI[3]	Yes
CRTP[3]	Yes
High Availability	
VRRP	Yes
IETF Graceful Restart	Yes
Redundant Interface	Yes

	Juniper Networks J2300/J4300/J6300
System Management	
JUNOScope Manager	Yes
J-Web browser interface	Yes
Service Deployment System (SDX)	Yes
JUNOScript XML API	Yes
JUNOS CLI (console, telnet, SSH)	Yes
SNMPv2 and SNMPv3	Yes
SLA and Measurement	
Probes (minimum delay, maximum delay, average delay, jitter)	Yes
Top talkers (sessions, packets, bandwidth usage)	Yes
Alarm generation on SLA violation	Yes
J-Flow Flow Monitoring and Accounting Services	Yes
Logging and Monitoring	
Syslog	Yes
Traceroute	Yes
Administration	
External administrator database (RADIUS/LDAP/SecureID)	Yes
Auto Install	Yes
Configuration rollback	Yes
Rescue configuration with button	Yes
Commit confirm for changes	Yes
Call home for diagnostics[2]	Yes
Software upgrades	Yes

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

Software Licenses

    J-Flow – Enables J-Flow features for flow monitoring and accounting services
    IPSec – Enables IPSEC features for VPNs
    Stateful Firewall Filters – Enables State Firewall Filter features
    SLA Monitoring – Enables SLA monitoring features
    BGP Router Reflector – Enable advanced BGP features

Port Licenses[4]

    1-port FE – Second license for 2-port FE card
    1-port T1 – Second license for 2-port T1 card
    1-port E1 – Second license for 2-port E1 card
    1-port Serial – Second license for 2-port Serial card

	Juniper Networks J2300[6]	Juniper Networks J4300	Juniper Networks J6300
Platform			
Form Factor	Fixed	Modular	Modular
Card Slots	1 WAN slot & 1 expansion slot	6 open slots	6 open slots
Compact Flash Memory Slots	1	2	2
USB Port for external storage	Yes	Yes	Yes
Mounting and rack size	desktop, wall, rack (19 inch)	front or center rack (19 inch)	front or center rack (19 inch)
Interfaces[4]			
2xFE fixed ports	Yes	Yes	Yes
Options for WAN slot	2xT1, 2xE1, 2xSerial[6]	N/A	N/A
Options for expansion slot	modem[3], ISDN BRI[3]	N/A	N/A
Pluggable Interface Modules (PIM)	N/A	2xT1, 2xE1, 2xSerial, 2xFE modem[3], ISDN BRI[3], ADSL 2+ [3]	2xT1, 2xE1, 2xSerial, 2xFE, T3 modem[3], ISDN BRI[3], ADSL 2+ [3]
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	Yes
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
Depth	12.37 inches	19.25 inches	19.25 inches

Ordering Information

Platforms
J2300, 2xT1	1-port T1,1-port FE licenses	J2300BASE-2T1-AC
J2300, 2xE1	1-port E1, 1-port FE licenses	J2300BASE-2E1-AC
J2300, 2xSerial	1-port Serial, 1-port FE licenses	J2300BASE-2Serial-AC
J4300 base	6-slot chassis, 1-port FE license	J4300BASE-AC
J6300 base	6-slot chassis, 1-port FE license	J6300BASE-2AC
J6300 base, redundant AC	6-slot chassis, 1-port FE license redundant AC power supply option	J6300BASE-2AC-R

Interfaces
2xFE	1-port FE license	JX-2FE-TX
2xT1	1-port T1 licenses	JX-2T1-RJ48
2xE1	1-port E1 license	JX-2E1-RJ48
2xSerial	1-port Serial license	JX-2Serial
1xDS3	1-port DS3 license	JX-1DS3

Memory
J2300 256 MB DRAM	J2300-MEM-256M-Option
J2300 512 MB DRAM	J2300-MEM-512M-Option
J4300 256 MB DRAM	J4300-MEM-256M-Option
J4300 512 MB DRAM	J4300-MEM-512M-Option
J6300 256 MB DRAM	J6300-MEM-256M-Option
J6300 512 MB DRAM	J6300-MEM-512M-Option
J6300 1 GB DRAM	J6300-MEM-1G-Option

Compact Flash
J2300 128 MB Compact Flash Memory	J2300-CF-128M-Option
J2300 256 MB Compact Flash Memory	J2300-CF-256M-Option
J4300 256 MB Compact Flash Memory	J4300-CF-256M-Option
J6300 256 MB Compact Flash Memory	J6300-CF-256M-Option
512 MB Compact Flash Memory	JX-CF-512M-Option
1 GB Compact Flash Memory	JX-CF-1G-Option

Serial Cables
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

Power Cords
AC Power Cable, US (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-US
AC Power Cable, UK (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-UK
AC Power Cable, Italy (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-IT
AC Power Cable, Europe (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-EU
AC Power Cable, Australia (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-AU
AC Power Cable, Japan (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-JP
AC Power Cable, China (10A, 2.5m) - Straight	CBL-PWR-10AC-STR-CH

[1] Performance, capacity and features listed are based upon systems JUNOS 6.4 and may vary with other JUNOS releases. Actual throughput may vary based upon packet size and enabled features.

[2] Available 4Q04

[3] Available 1H05

[4] Port interfaces come with a 1-port license. The license for the second port is optionally available.

[5] Base configuration includes one LAN and one WAN port.

[6] Interface is factory installed at time of order.