

# Juniper Networks J4350/J6350 Services Routers



Juniper Networks J4350 and J6350 routers provide up to Gigabit Ethernet performance for enterprise remote, branch and regional offices. They are Avaya voice-ready and run modular JUNOS software which offers many advanced services (MPLS, IPv6, QoS, multicast, etc) and security (stateful firewall and IPSec VPN) at no extra charge. The J4350 and J6350 routers are forward-looking platforms with performance headroom and extensible memory to meet future demands, and provide unmatched reliability, investment protection, and value for the enterprise.

The following features and functionality are supported on J4350 and J6350 products

## Protocols

IPv4, IPv6, ISO CLNS, DLSw\*

## Routing and Multicast

OSPF  
 BGP  
 BGP Router Reflector\*  
 RIPv2  
 Static routes  
 IS-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

Specifications	Juniper Networks J6350	Juniper Networks J4350
<b>Maximum Performance and Capacity</b>		
JUNOS version support	JUNOS 8.0	JUNOS 8.0
Forwarding Performance (Large Packets)	2 Gbps + 1 Gbps	1 Gbps + 600 Mbps
Forwarding Performance (IMIX)	500 Mbps	300 Mbps w/ HW Acceleration / 30 Mbps w/o HW Acceleration
3DES + SHA1 VPN performance (Large Packets)		
<b>Network Connectivity</b>		
Fixed I/O	4x 10/100/1000	4x 10/100/1000
Maximum Physical Interface Module (PIM) Slots	6	6
Maximum Enhanced Physical Interface Module (EPIM) Slots	4	2
WAN interface options	See Physical Interface Modules (page 2)	See Physical Interface Modules (page 2)
LAN interface options	See Enhanced Physical Interface Modules (page 2)	See Enhanced Physical Interface Modules (page 2)
<b>Flash and Memory</b>		
Memory min/max (DRAM)	1 GB / 2 GB	256 MB / 2 GB
Memory slots	4	4
Compact flash min/max	256 MB / 1 GB	256 MB / 1 GB
USB port for external storage	Yes	Yes
<b>Dimensions and Power</b>		
Dimensions (H/W/L)	3.5H/17.5W/21.5L	3.5H/17.5W/21.5L
Weight	25.0 lbs (no interface modules + one power supply) 30.7 lbs (six interface + two power supplies)	23.0 lbs (no interface modules) 25.3 lbs (six interface modules)

Specifications	Juniper Networks J6350	Juniper Networks J4350
<b>Dimensions and Power cont'd</b>		
Rack mountable	Yes, 2RU	Yes, 2RU
Power Supply (AC)	100-240 VAC, 420 watts	100-240 VAC, 350 watts
Power Supply (DC) -48 to -60 VDC, 420 watts	-48 to -60 VDC, 420 watts	-48 to -60 VDC, 420 watts
Redundant Power Supply (Hot Swappable)	Yes	No
<b>Certifications</b>		
Safety Certifications	UL, CUL, CSA, CB	UL, CUL, CSA, CB
EMC Certifications	FCC class A, CE class A, C-Tick, VCCI class A	FCC class A, CE class A, C-Tick, VCCI class A
<b>Environment</b>		
Operational temperature	32° to 122° F, 0° to 50° C	32° to 122° F, 0° to 50° C
Non-operational temperature	-4° to 158° F; -20° to 70° C	-4° to 158° F; -20° to 70° C
Humidity	10 to 90% non-condensing	10 to 90% non-condensing
MTBF (Bellcore model)	12 years	12 years
Other	NEBS Level 3	NEBS Level 3

**Ordering Information**

J4350 Platforms Product and Description	Description
J4350, 256MB CF, 256MB RAM, 0 PIM cards, AC PSU, w/JUNOS, Software Encryption	J-4350-JB-SC
J4350, 256MB CF, 1GB RAM, 0 PIM cards, AC PSU, w/JUNOS	J-4350-JB
J4350, 256MB CF, 1GB RAM, 0 PIM cards, AC PSU, NEBS, w/JUNOS	J-4350-JB-N
J4350, 256MB CF, 1GB RAM, 0 PIM cards, DC PSU, NEBS, w/JUNOS	J-4350-JB-DC-N
J6350 Platforms Product and Description	Description
J6350, 256MB CF, 1GB RAM, 0 PIM cards, 1 AC PSU, w/JUNOS	J-6350-JB
J6350, 256MB CF, 1GB RAM, 0 PIM cards, 1 AC PSU, NEBS, w/JUNOS	J-6350-JB-N
J6350, 256MB CF, 1GB RAM, 0 PIM cards, 1 DC PSU, NEBS, w/JUNOS	J-6350-JB-DC-N

Compact Flash	
256MB Compact Flash	JX-CF-256M-S
512MB Compact Flash	JX-CF-512M-S
1GB Compact Flash	JX-CF-1G-S

Additional Memory	
256MB Memory for J4350 and J6350 - Spare	JXX50-MEM-256M-S
512MB Memory for J4350 and J6350 - Spare	JXX50-MEM-512M-S

Licenses	
Advanced BGP License (Route Reflector)	JX-BGP-ADV-LTU
J-Flow License	JX-JFlow-LTU
DLSw License for J4350	J4350-DLSW-LTU
DLSw License for J6350	J6350-DLSW-LTU

Accessories	
Replacement air filter	SSG-500-FLTR
Spare Power Supply for SSG 550 and J6350, AC Power	SSG-PS-AC
Spare Power Supply for SSG 550 and J6350, DC Power	SSG-PS-DC
J4350 Hardware Cryptographic Acceleration Module	JXH-HC-S
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
3 Prong, 10A Power Cable, Australia	CBL-JX-PWR-AU
3 Prong, 10A Power Cable, China	CBL-JX-PWR-CH
3 Prong, 10A Power Cable, Europe	CBL-JX-PWR-EU
3 Prong, 10A Power Cable, Italy	CBL-JX-PWR-IT
3 Prong, 10A Power Cable, Japan	CBL-JX-PWR-JP
3 Prong, 10A Power Cable, UK	CBL-JX-PWR-UK
3 Prong, 10A Power Cable, US	CBL-JX-PWR-US
PIM Slot Blank Spare plate	JX-Blank-FP-S

Physical Interface Modules (PIM)	
2 Port Serial PIM	JX-2Serial-S
2 Port T1 PIM with integrated CSU/DSU	JX-2T1-RJ48-S
2 Port E1 PIM with integrated CSU/DSU	JX-2E1-RJ48-S
1 Port DS3 PIM	JX-1DS3-S
1 port E3 PIM	JX-1E3-S
2 port FE PIM	JX-2FE-TX-S
1 Port ADSL2/2+ PIM - Annex A	JX-1ADSL-A-S
1 Port ADSL2/2+ PIM - Annex B	JX-1ADSL-B-S
4 Port ISDN BRI PIM - S/T Interface	JX-4BRI-S-S
4 Port ISDN BRI PIM - U Interface	JX-4BRI-U-S
2 Port 2-wire or 1 Port 4-wire G.SDHSL PIM	JX-2SHDSL-S

Enhanced Physical Interface Modules (EPIM)	
4 Port Fast Ethernet Enhanced PIM	JXE-4FE-TX-S
1 Port Copper Gigabit Ethernet 10/100/1000 Enhanced PIM	JXE-1GE-TX-S
1 Port Fiber Gigabit Ethernet Enhanced PIM (SFP sold separately)	JXE-1GE-SFP-S

Small Form Factor Pluggables (SFP)	
Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	JX-SFP-1GE-LX
Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module	JX-SFP-1GE-SX

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

Note: The appropriate power cord is included based upon the sales order "Ship To" destination.



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