

# Cisco Intelligent WAN powered by ISR 4000 Series



## Improved User Experience

- Load balance traffic and lower costs with intelligent path selection using real-time analytics
- Visibility into 1000+ applications for capacity planning and prioritization
- Improve application performance and offload WAN with L4-7 optimization and intelligent caching



## Reduce Costs and Complexity

- Pay-as-you-grow: buy what you need today and upgrade anytime without truck rolls
- Predictable OpEx spend, license portability, investment protection
- Automated provisioning for faster deployment
- Consistent IOS-XE operating system across branch, data center and cloud



## Advanced Security

- Industry leading advanced threat defense
- Scale secure direct Internet access across branch sites with consistent policy enforcement
- High performance next-generation encryption for secure WAN



## Scale with High Performance

- 4-10 times performance increase for the same price as the ISR G2
- Minimal performance impact as network services and throughput increases
- Local compute resources for applications, data back up and analytics



## ISR 4000 Platform Comparison

	Cisco 4321	Cisco 4331	Cisco 4351	Cisco 4431	Cisco 4451
<b>Form Factor</b>	1 RU Desktop	1 RU	2 RU	1 RU	2 RU
<b>Integrated WAN Ports</b>	1 GE/SFP; 1GE	1 GE/SFP; 1GE, 1SFP	2 GE/SFP; 1 GE/SFP (PoE optional)	2 GE/SFP; 2 GE/SFP (PoE optional)	2 GE/SFP; 2 GE/SFP (PoE optional)
<b>Performance</b>	50 Mbps upgradable to 100 Mbps	100 Mbps upgradable to 300 Mbps	200 Mbps upgradable to 400 Mbps	500 Mbps upgradable to 1 Gbps	1 Gbps upgradable to 2Gbps
<b>Management Port</b>	1 GE (Integrated Out of Band)	1 GE (Integrated Out of Band)	1 GE (Integrated Out of Band)	1 GE (Integrated Out of Band)	1 GE (Integrated Out of Band)
<b>Network Interface Modules (NIM)</b>	2	2	3	3	3
<b>Enhanced Service Modules (SM-X)</b>	N/A	1 Single Wide	2 Single or 1 Double Wide	N/A	2 Single or 1 Double Wide
<b>Integrated Services Card (ISC)</b>	1 (PVDM 4)	1 (PVDM 4)	1 (PVDM 4)	1 (PVDM 4)	1 (PVDM 4)
<b>USB Ports (Type A)</b>	1	1	2	2	2
<b>Flash Memory (Default/Max)</b>	4 GB/16 GB	4 GB/16 GB	4 GB/16 GB	8 GB/32 GB	8 GB/32 GB
<b>Data Plane Memory (Default/Max)</b>	N/A	N/A	N/A	1 GB/2 GB	2 GB/2 GB
<b>Control/Services Plane Memory (Default/Max)</b>	N/A	N/A	N/A	4 GB/16 GB	4 GB/16 GB
<b>Combined Control/Services/Data Plane Memory (Default/Max)</b>	4 GB/8 GB	4 GB/16 GB	5 GB/16 GB	N/A	N/A
<b>Power Supply Type</b>	External: AC, PoE	Internal: AC, PoE	Internal: AC or DC (PoE optional)	Internal: AC or DC (PoE optional)	Internal: AC or DC (PoE optional)
<b>Redundant Power Supply</b>	No	No	No	Yes (Internal)	Yes (Internal)
<b>Module Online Insertion and Removal (OIR)</b>	Yes	Yes	Yes	Yes	Yes
<b>Server Virtualization Platform (UCS E-Series)</b>	N/A	2 or 4 core single-wide	2 or 4 core single-wide 4, 6 or 8 core double-wide	N/A	2 or 4 core single-wide 4, 6 or 8 core double-wide
<b>Migration Path</b>					
<b>Migrate from ISR G1</b>	ISR 1841, ISR 1861, ISR 2801	ISR 2801, ISR 2811, ISR 2821, ISR 2851	N/A	ISR 3825, ISR 3845	N/A
<b>Migrate from ISR G2</b>	ISR 1921,ISR 1941,ISR 2901	ISR 2911, ISR 2921	ISR 2951	ISR 3925, ISR 3945	ISR 3925E, ISR 3945E

## ISR 4000 Software Purchasing Options



Cisco ISR 4000 Series

Learn more at [www.cisco.com/go/isr4000](http://www.cisco.com/go/isr4000)