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**

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Cisco 4221</th>
<th>Cisco 4351</th>
<th>Cisco 4351</th>
<th>Cisco 4371</th>
<th>Cisco 4451</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated WAN Ports</td>
<td>1 RU Desktop</td>
<td>1 RU</td>
<td>2 RU</td>
<td>2 RU</td>
<td>2 RU</td>
</tr>
<tr>
<td>Performance</td>
<td>50 Mbps upgradable to 100 Mbps</td>
<td>100 Mbps upgradable to 300 Mbps</td>
<td>200 Mbps upgradable to 400 Mbps</td>
<td>500 Mbps upgradeable to 1 Gbps</td>
<td>1 Gbps upgradeable to 2 Gbps</td>
</tr>
<tr>
<td>Network Interface Modules (NIM)</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Enhanced Service Modules (ESM)</td>
<td>N/A</td>
<td>1 Single Wide</td>
<td>2 Single or 1 Double Wide</td>
<td>2 Single or 1 Double Wide</td>
<td>2 Single or 1 Double Wide</td>
</tr>
<tr>
<td>Integrated Services Card (ISC)</td>
<td>N/A</td>
<td>1 (PVDM 4)</td>
<td>1 (PVDM 4)</td>
<td>1 (PVDM 4)</td>
<td>1 (PVDM 4)</td>
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<tr>
<td>USB Ports (Type A)</td>
<td>N/A</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Flash Memory (Default/Max)</td>
<td>6 GB/16 GB</td>
<td>4 GB/16 GB</td>
<td>6 GB/16 GB</td>
<td>8 GB/24 GB</td>
<td>8 GB/16 GB</td>
</tr>
<tr>
<td>Data Plane Memory (Default/Max)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1 GB/2 GB</td>
<td>2 GB/2 GB</td>
</tr>
<tr>
<td>Control/Services Plane Memory (Default/Max)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>4 GB/10 GB</td>
<td>4 GB/16 GB</td>
</tr>
<tr>
<td>Combined Control/Service Data Plane Memory (Default/Max)</td>
<td>4 GB/16 GB</td>
<td>4 GB/16 GB</td>
<td>5 GB/16 GB</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Power Supply Type</td>
<td>External, PoE</td>
<td>Internal, AC</td>
<td>Internal, AC</td>
<td>Internal, AC or DC</td>
<td>Internal, AC or DC</td>
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<tr>
<td>Redundant Power Supply</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes (Internal)</td>
<td>Yes (Internal)</td>
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<tr>
<td>Module Online Insertion and Removal (IOR)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Server Virtualization Platform</td>
<td>N/A</td>
<td>2 or 4 core single-wide</td>
<td>2 or 4 core single-wide</td>
<td>2 or 4 core single-wide</td>
<td>2 or 4 core single-wide</td>
</tr>
</tbody>
</table>

**Migration Path**
- Migrate from ISR G1: ISR 1841, ISR 1861, ISR 2801, ISR 2801, ISR 2811, ISR 2821, ISR 2851
- Migrate from ISR G2: ISR 1921, ISR 1941, ISR 2901, ISR 2911, ISR 2921, ISR 2951, ISR 3925, ISR 3945, ISR 2925E, ISR 2945E

Learn more at www.cisco.com/go/isr4000

 ISR 4000 Software Purchasing Options

**Cisco ONE for Software**

- **Threat Defense for WAN**
  - Web Filtering, Malware Protection with Visibility and Control
- **WAN Collaboration**
  - Voice Gateways and Voice Services
- **Foundation for WAN**
  - Secure Connectivity and Firewall
- **Application Experience (AX)**
  - Advanced Networking, Application Services and Hybrid Cloud Connectivity
- **Security (SEC)**
  - Advanced Security including Firewall, VPN and IPS
- **IP Base**
  - Basic Security, Networking and Management

**How to Buy**