






# Cisco ASR 1000 Series

## Aggregation Services Routers



### Transform and Extend the WAN Edge with Scalable Service Intelligence

Cisco® ASR 1000 Series Aggregation Services Routers offer enterprises and service providers industry-leading performance, service capabilities, reliability, and efficiencies in a compact form factor. Using the innovative Cisco QuantumFlow Processor, you can activate current and future services instantly to operate at line rate without compromising network performance or availability.

	Cisco ASR 1002	Cisco ASR 1004	Cisco ASR 1006
			
Chassis	Scalable to 10 Gbps Software redundancy 4 built-in Gigabit Ethernet ports	Scalable to 40 Gbps Software redundancy	Scalable to 40 Gbps Hardware redundancy
Embedded Services Processors (ESP)	5 Gbps Cisco ASR1000 ESP (ASR 1000-ESP5) (single) 10 Gbps Cisco ASR1000 ESP (ASR 1000-ESP10) (single) Scalable to 10 Gbps	10 Gbps Cisco ASR1000 ESP (ASR 1000-ESP10) (single) 20 Gbps Cisco ASR1000 ESP (ASR 1000-ESP20) (single) Scalable to 20+ Gbps	10 Gbps Cisco ASR1000 ESP (ASR 1000-ESP10) (single or dual) 20 Gbps Cisco ASR1000 ESP (ASR 1000-ESP20) (single or dual) Scalable to 20+ Gbps
Route Processor	Integrated in the chassis 4 GB memory	Cisco ASR1000 Route Processor 1 (RP1) (single) 2 or 4 GB memory	Cisco ASR1000 RP1 (single or dual) 2 or 4 GB memory
Shared Port Adapter (SPA) Slots	3	8	12

### Benefits of Cisco ASR 1000 Series

- Delivers integrated, high-performance services, including multigigabit encryption, broadband, 20 Gbps firewall, Network-based Application Recognition (NBAR), Flexible Packet Matching (FPM), WAN optimization, and Cisco Session Border Controller. (All software-enabled—no service blades required).
- Establishes new price-performance class for WAN edge routers to deliver secure WAN aggregation, private WAN, and Internet gateway services.
- Provides powerful resiliency with convenient and cost-saving In Service Software Upgrade (ISSU) capability.
- Offers software redundancy on nonredundant hardware with the Cisco ASR 1002 and ASR 1004 Routers.

### Innovations

- **Extends high availability to the edge**  
Enables ISSU, even for single-route processor configurations.
- **Delivers instant-on services**  
Requires only a license to activate all services.
- **Enables new operating efficiencies**  
Reduces power consumption, space, and sparring requirements with integrated wire-rate services and compact design.