

Cisco Carrier Routing System

The Cisco CRS-1 Carrier Routing System (PDF - 2.1 MB) is the industry's only carrier routing system offering continuous system operation, unprecedented service flexibility, and system longevity. Powered by Cisco IOS XR Software, it is designed for always-on operation while scaling system capacity up to 92 Tbps.

The CRS-1 marks a new era in carrier IP communications by powering the foundation for IP Next-Generation Networks (IP NGNs) today while protecting investments for decades to come.

The Cisco CRS-1

- Supports an integrated IP over dense wavelength-division multiplexing (DWDM) transponder with flexible 10 Gbps and 40 Gbps options that extends up to 2000 km without regeneration.
 - Simplify Optical Convergence over IP Video Data Sheet
 - Converge IP and DWDM Layers in the Core Network White paper
- Supports standalone configurations of 320-Gbps, 640-Gbps, and 1.2-Tbps systems enabling 40-Gbps per slot capacity in all form factors.
- Supports multichassis configurations of 1.2 to 92 Tbps with the use of up to 72 line card shelves and eight fabric shelves all operating as a single system.
- Supports both fixed and modular line cards usable across all configurations. The fixed cards feature the world's first 40-Gbps (OC-768/STM-256) tunable WDMPOS and POS interfaces. The Cisco I-Flex (PDF - 2.1 MB) design offers a portfolio of modular interfaces featuring shared port adapters (SPAs) and SPA interface processors (SIPs).