



Types of Ports in Cisco Routers (CCNA Focus)

Port Type	Purpose / Use	Common in Models Like
Console Port	Direct access for configuration via CLI (serial cable required)	1841, 1941, 2901
AUX Port	Remote access via modem (out-of-band management)	Older models (e.g., 1841)
Ethernet/GigabitEthernet	For LAN/WAN connection, routing, switching traffic	10/100/1000 Mbps on 1941, 2901
Serial Port	Used for WAN connections (Frame Relay, PPP, HDLC)	Needs WIC/VIC module
USB Port	IOS image upload, backup config, or console access	Newer models (1941+)
WAN Interface Cards (WIC/VIC slots)	For modular expansion: add serial, DSL, T1, etc.	1841, 2801, 2911
FastEthernet	100 Mbps ports (older routers)	1841, 2811



Diagram of Common Port Layout (Example: Cisco 1941 Router)

| [CON] [AUX] [USB] [GEO/0] [GEO/1] [Expansion Slot] |

- CON = Console port
- AUX = Auxiliary port
- GEO/0, GEO/1 = GigabitEthernet interfaces
- USB = USB port for storage or IOS
- Expansion Slots = Add serial or DSL modules



Port Usage in CCNA Labs

Task	Port Used
Basic configuration	Console port (RJ45-to-DB9 cable)
Remote access (legacy)	AUX port
LAN routing	Ethernet/GigabitEthernet
Inter-router WAN links	Serial (via WIC module)
IOS/image transfer	USB port



Note:

- Many modern routers (like 2901, 4321) no longer have AUX or Serial ports by default