



# Cisco Catalyst 3850 Aggregation Switches

## Consolidated Access and Aggregation Switches Conserve Space, Power, Capital

Cisco Catalyst 3850 Series switches integrate a variety of access, management, and connection media types into a compact footprint. You get many switching functions in a single form factor, allowing you to conserve real estate, power, and capital expenses. You can scale your environment by stacking additional switches as Ethernet and wireless LAN traffic grows (Figure 1).

**Figure 1.** Cisco Catalyst 3850 Switches with 12 and 24 SFP+ Ports



## Benefits

- Stack fiber and copper Cisco® Catalyst® 3850 switches together for more flexible network designs.
- Take advantage of a wide range of pluggable transceiver modules.
- Get built-in stack and power resiliency.
- Gain extensive application visibility on all switch ports using Cisco IOS® Flexible NetFlow.
- Apply Cisco TrustSec® technology for network and user segmentation and security.
- Prepare for software-defined networking with SDN OpenFlow-ready equipment.

Cisco Catalyst 3850 Series Switches with expanded SFP+ and SFP models not only deliver on the growing needs of your IT networks today but also future proof your network. They support [a wide variety of pluggable transceiver modules](#) for downlink ports, including 10/100/1000, 100BASE-FX, 1000BASE-X, and 10GBASE-X. They complement fixed RJ-45-based Cisco Catalyst 3850 Series switches and can run in stacked configurations with them with up to 480 Gbps of stack throughput. They can also operate in standalone aggregation configurations.

The Cisco Catalyst 3850 Series is built on a special Cisco application-specific integrated circuit (ASIC) that provides wire-rate hardware performance with consistent network services across both wired and wireless traffic. It also allows for deployment of software-defined networking (SDN) services.

## Superior Security and Manageability

Cisco TrustSec capabilities in the 3850 use the device and user credentials acquired during authentication for classifying packets by security groups as they enter the network. The switches are also hardware-ready for link-layer MACsec encryption to protect data traffic across the network and meet regulatory and compliance requirements.



Fiber connections provide enhanced physical security as well as electromagnetic interference resistance, while 10 and 40 Gigabit Ethernet connections greatly increase bandwidth for demanding network designs.

Support for Cisco IOS Flexible NetFlow on all switch ports gives you full traffic visibility into both your access and aggregation networks. Network traffic originally generated by wired or wireless devices can be prioritized from the access layer through the aggregation layer using advanced QoS capabilities for an improved user experience.

### Next Steps

For more information about Cisco Catalyst 3850 switches, visit [www.cisco.com/go/3850](http://www.cisco.com/go/3850).