

Cisco Catalyst Fixed Switching Portfolio

Fast Ethernet				Gigabit Ethernet										
Layer 2		Layer 3		Layer 2				Layer 3						
2960 LAN Lite	2960 LAN Base	3560V2 IP Base	3750V2 IP Base	2960-S LAN Lite	2960-S LAN Base	3560-X LAN Base	3750-X LAN Base	3560-G IP Base	3750-G IP Base	3560-E IP Base	3750-E IP Base	3560-X IP Base	3750-X IP Base	
Borderless Networks Services														
TrustSec	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
Medianet	-	-	-	-	-	-	-	-	-	-	-	✓	✓	
EnergyWise	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Future Proof / Scalability / Investment Protection														
Stacking	-	-	-	StackWise 32G; nine	-	FlexStack 20G; four	-	StackWise+ 64G; nine	-	StackWise 32G; nine	-	StackWise+ 64G; nine	-	StackWise+ 64G; nine
Modular Uplinks	-	-	-	-	-	-	✓	✓	-	-	-	-	✓	✓
IOS Upgrade	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
LAN Base IOS	-	✓	-	-	✓	✓	✓	✓	-	-	-	-	-	-
HW Warranty	LLW	LLW	LLW	LLW	ELLW	ELLW	ELLW	ELLW	LLW	LLW	LLW	LLW	ELLW	ELLW
Software Update	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
GE Uplinks	2 x GE	2 x GE	2 x GE	2 x GE	2 x GE	4 x GE	4 x GE	4 x GE	2 x GE	2 x GE	4 x GE	4 x GE	4 x GE	4 x GE
10 GE Uplinks	-	-	-	-	-	2 x 10 GE	2 x 10 GE	2 x 10 GE	-	-	2 x 10 GE	2 x 10 GE	2 x 10 GE	2 x 10 GE
High Availability / Redundancy - (Power Supply Unit = PSU)														
StackPower	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
Dual PSU	-	-	-	-	-	-	✓	✓	-	-	-	-	✓	✓
RPS / XPS	-	RPS	RPS	RPS	-	RPS	XPS	XPS	RPS	RPS	RPS	RPS	XPS	XPS
Modular / Hot Swap Fans / PSU	-	-	-	-	-	-	✓	✓	-	-	✓	✓	✓	✓
PoE (15.4W)	Partial	Partial	Partial	Partial	-	Full PoE	Full PoE	Full PoE	Partial	Partial	Full PoE	Full PoE	Full PoE	Full PoE
PoE + (30W)	-	-	-	-	-	Partial	Full PoE+	Full PoE+	-	-	-	-	Full PoE+	Full PoE+
Ease-of-Use / Management														
Smart Operations	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
Smart Install	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DRAM / Flash	128/32 MB	128/32 MB	256/64 MB	256/64 MB	128/32 MB	128/64 MB	256/64 MB	256/64 MB	256/16 MB	256/16 MB	256/64 MB	256/64 MB	256/64 MB	256/64 MB
USB Port	-	-	-	-	✓	✓	✓	✓	-	-	-	-	✓	✓

Positioning Catalyst Fixed Switching Portfolio

Catalyst 2960 and C2960-S Series	Catalyst 3K-X Series
<ul style="list-style-type: none"> Entry-level, competitively priced including stacking, full PoE, PoE+ Ease-of-use capabilities – Smart Operations, smart install, auto QoS, auto configuration, IOS-based templates Deliver base-line Borderless Networks Services 	<ul style="list-style-type: none"> All Catalyst 2K-S capabilities - PLUS Resiliency – high availability, redundancy, hot swap fans/PSU/uplinks, StackPower, dual PSU Future Proofing – IOS upgrade, modular uplinks, PoE/PoE+ scalability, stacking, FRU (PSU, fans, uplinks) Deliver full Borderless Networks Services

Limited Lifetime Warranty Catalyst 3K, 3K-G, 3K-E and C2960	Enhanced LLW Catalyst 3K-X and C2960-S	Software Update Policy All Catalyst 3K and 2K Series
<ul style="list-style-type: none"> 5 years on Power Supplies and Fans; Lifetime on switch 10 Business Days Advanced Hardware Replacement Hardware Warranty ends five years after product reaches End-of-Sale 	<ul style="list-style-type: none"> Limited Lifetime Warranty PLUS – Next Business Day Advanced Hardware Replacement 90-Days TAC Support (Mon-Fri, 8:00AM-5:00PM) Hardware Warranty ends five years after product reaches End-of-Sale 	<ul style="list-style-type: none"> Unlimited FREE updates to the latest IOS release within the same IOS service level (e.g. LAN Base to LAN Base, IP Base to IP Base) Applicable to LAN Lite, LAN Base and IP Base Images. No service contract is required IP Services IOS service level requires a service contract Software enhancements end 6-12 months after product reaches End-of-Sale Software upgrade to the next IOS service level (e.g. LAN Base to IP Base, IP Base to IP Services) is a chargeable upgrade at additional cost

Cisco Catalyst Fixed Switching IOS Features Comparison

Layer 3	LAN Lite	LAN Base	IP Base	IP Services
SVIs	Single management interface	✓	✓	✓
HSRP and HSRPv2	-	-	✓	✓
Inter-VLAN routing	-	12.2(55)SE or later on 2960(S)	✓	✓
Static route support	-	12.2(55)SE or later on 2960(S)	✓	✓
RIP, EIGRP Stub, and PIM Stub	-	-	✓	✓
Medianet	-	-	✓	✓
IPv6 ACL or QoS	-	-	✓	✓
VRF-lite support	-	-	-	✓
PBR, PIM, WCCP	-	-	-	✓
OSPF, BGP, and IS-IS	-	-	OSPF for Routed Access	✓
OSPFv3 and EIGRP for IPv6	-	-	-	✓
RIPng and static IPv6 routes	-	-	✓	✓
HSRPv6	-	-	12.2(53)SE2 or later	✓

Layer 2	LAN Lite	LAN Base	IP Base	IP Services
VLANs	64	255	1005	1005
Voice VLAN	✓	✓	✓	✓
Storm control and block unknown unicast and multicast	✓	✓	✓	✓
VTPv2 and v3	(v2 only)	✓	✓	✓
Max # of EtherChannel groups	6	6 C2K; 48 C3K	48	48
LLDP	✓	✓	✓	✓
LLDP-MED	12.2(55)SE or later	✓	✓	✓
802.3ad LACP	✓	✓	✓	✓
Spanning Tree Protocol instances	64	128	128	128
802.1w and 802.1s	✓	✓	✓	✓
PVST and PVRST+	✓	✓	✓	✓
Port Fast and Uplink Fast	✓	✓	✓	✓
RPS support	-	✓	✓	✓
Jumbo Frames	-	✓	✓	✓
LLDP MED MIB	-	✓	✓	✓
LLDP power assignment	-	✓	✓	✓
Flex Link	-	✓	✓	✓
Link-state tracking	-	✓	✓	✓
PAGP+ for VSS	-	✓	✓	✓
Cross-stack features	-	✓	✓	✓
QinQ	-	-	✓	✓

Management and Installation	LAN Lite	LAN Base	IP Base	IP Services
Stacking	-	FlexStack C2960-S StackWise Plus C3750-X	StackWise C3750 StackWise Plus C3750-E and C3750-X	StackWise C3750 StackWise Plus C3750-E and C3750-X
Mixed-image stacking	-	No. C3750-X LAN Base stacks with same	✓	✓
Uplink network module	-	C3560-X and C3750-X	C3560-X and C3750-X	C3560-X and C3750-X
USB flash-drive support - boot Cisco IOS Software from USB	C2960-S	C3560-X, C3750-X and C2960-S	C3560-X and C3750-X	C3560-X and C3750-X
Auto-MDIX	✓	✓	✓	✓
Express setup	✓	✓	✓	✓
Device Manager	✓	✓	✓	✓
Cisco Network Assistant	✓	✓	✓	✓
CiscoWorks LMS	✓	✓	✓	✓
Smartports / Auto Smartports	✓	✓	✓	✓
Smart Install	Client only	Client only	Director and client	Director and client
Configuration replace	✓	✓	✓	✓

Cisco Catalyst Fixed Switching IOS Features Comparison

Management and Installation - continued	LAN Lite	LAN Base	IP Base	IP Services
DHCP port-based allocation	✓	✓	✓	✓
IP address DHCP	✓	✓	✓	✓
SNMPv3 with 3DES	✓	✓	✓	✓
DHCP Option 12: Hostname	-	✓	✓	✓
EEM	-	-	12.2(55)SE or later	✓

Troubleshooting	LAN Lite	LAN Base	IP Base	IP Services
Time Domain Reflectometer (TDR)	✓	✓	✓	✓
Unidirectional Link Detection (UDLD)	✓	✓	✓	✓
Layer 2 and IP Traceroute	✓	✓	✓	✓
Troubleshooting Advisor	✓	✓	✓	✓
Error Disable MIB	✓	✓	✓	✓
SPAN	✓	✓	✓	✓
RSPAN	-	✓	✓	✓
IP SLA Responder	-	✓	✓	✓
IP SLA Initiator	-	-	-	✓
RPS 2300	-	✓ (not X series)	✓ (not X series)	✓ (not X series)
XPS 2200	-	C3560-X and C3750-X	C3560-X and C3750-X	C3560-X and C3750-X
Onboard failure logging	-	C3560-X, C3750-X, and C2960-S	C3560-E, C3750-E, C3560-X, and C3750-X	C3560-E, C3750-E, C3560-X, and C3750-X
Generic Online Diagnostics (GOLD-Lite)	-	C3560-X, C3750-X, and C2960-S	✓	✓
USB console	C2960-S	C3560-X, C3750-X, and C2960-S	C3560-X and C3750-X	C3560-X and C3750-X

Quality of Service	LAN Lite	LAN Base	IP Base	IP Services
Port CoS Trust and Override	✓	✓	✓	✓
DSCP Trust	-	✓	✓	✓
Priority Queuing	✓	✓	✓	✓
Configure CoS priority queues	✓	✓	✓	✓
DSCP transparency	✓	✓	✓	✓
Weighted Tail Drop	-	✓	✓	✓
Scheduling	SRR	SRR	SRR	SRR
802.1p queues	4	4	4	4
Trusted boundary	-	✓	✓	✓
ACL classification	-	✓	✓	✓
Ingress policing	-	✓	✓	✓
AutoQoS	-	✓	✓	✓
Configure queue weights	-	✓	✓	✓
Configure buffers and thresholds	-	✓	✓	✓
Class and policy maps	-	✓	✓	✓
Modify CoS and DSCP mapping	-	✓	✓	✓
Per-VLAN policy	-	✓	✓	✓

Security	LAN Lite	LAN Base	IP Base	IP Services
SSH, SSL, HTTPS, and SCP	✓	✓	✓	✓
RADIUS and TACACS+	✓	✓	✓	✓
SNMPv3 cryptography	✓	✓	✓	✓
BPDU and Root Guard	✓	✓	✓	✓
Port security	✓	✓	✓	✓
DHCP Server	✓	✓	✓	✓
Layer 2-4 ACLs (port-, time-, DSCP-based)	-	✓	✓	✓
DHCP snooping	12.2(55)SE or later	✓	✓	✓
Dynamic ARP Inspection	-	✓	✓	✓
IP Source Guard, IPSG for static hosts	-	✓	✓	✓

Cisco Catalyst Fixed Switching IOS Features Comparison

Security - continued	LAN Lite	LAN Base	IP Base	IP Services
DHCP Option 82	-	✓	✓	✓
VACL	-	-	✓	✓
RACL	-	12.2(55)SE or later (2960/2960-S)	✓	✓
Private VLANs	- (PVLAN edge only)	- (PVLAN edge only)	✓	✓
NAC Appliance Support	✓	✓	✓	✓
Voice VLAN	✓	✓	✓	✓
VLAN assignment on Multi-auth port	-	✓	✓	✓
Critical VLAN (AAA down scenario)	-	✓	✓	✓
MAB host mobility (move & replace)	-	✓	✓	✓
PVLAN, DAI, and IPSG interoperability	-	-	✓	✓
IEEE 802.1x-2010	-	-	C3560-X and C3750-X	C3560-X and C3750-X
IEEE 802.1AE MACsec	-	-	C3560-X and C3750-X	C3560-X and C3750-X

Identity	LAN Lite	LAN Base	IP Base	IP Services
802.1X	✓	✓	✓	✓
802.1X Accounting and MIB	✓	✓	✓	✓
802.1X with voice VLAN	✓	✓	✓	✓
802.1X Guest VLAN	✓	✓	✓	✓
802.1X VLAN Assignment	✓	✓	✓	✓
802.1X Auth-Fail VLAN	✓	✓	✓	✓
802.1X MAC-Auth Bypass	✓	✓	✓	✓
802.1X AAA Fail Open	-	✓	✓	✓
802.1X Wake-on-LAN	-	✓	✓	✓
Web Authentication	-	✓	✓	✓
802.1ae MACSec	-	C3560-X and C3750-X	C3560-X and C3750-X	C3560-X and C3750-X
802.1x User Distribution	-	✓	✓	✓
802.1X Multi-Domain Auth	-	✓	✓	✓
Identity Downloadable ACLs	-	✓	✓	✓
Flexible Authentication	-	✓	✓	✓
802.1X Switch Supplicant	-	✓	✓	✓
802.1X with Open Access	-	✓	✓	✓
802.1X Multi-Authentication	-	✓	✓	✓
NAC-NAD-MIB and Cisco-PAE-MIB	-	✓	✓	✓
RADIUS Change of Auth (COA)	-	✓	✓	✓
802.1X MAB with Voice VLAN	-	✓	✓	✓

Location, High Avail, Multicast & IPv6	LAN Lite	LAN Base	IP Base	IP Services
Network Location Services (NMSP integration with Mobility Services Engine)	-	✓	✓	✓
IGMP snooping	✓	✓	✓	✓
IGMP filter and throttle	✓	✓	✓	✓
IPv6 host and management	-	✓	✓	✓
IPv6 MLD snooping	-	✓	✓	✓
MVR	-	✓	✓	✓
RPS support	-	✓	✓	✓
PIM Stub	-	-	✓	✓
IGMP proxy	-	-	✓	✓
Medianet	-	-	✓	✓
IPv6 ACL or QoS	-	-	✓	✓
IPv6 routing	-	-	RIPng/static	✓
NSF (IPv4)	-	-	-	✓