

# Portable Product Sheet - Catalyst 2900



Last Updated: August 25, 2005

Note: Catalyst 2948, 2948G, 2948-GE-TX, and similar switches are not included on this sheet, as they are actually fixed-configuration Cat4X00 products. In the future, we may add these switches to the sheet.

## Catalyst 2950 Series

Feature	50-12	50-24	50T-24	50SX-24	50C-24	50T-48	50SX-48
EOS	No						
Form Factor	1 RU						
Switch Fabric	8.8Gbps	8.8Gbps	8.8Gbps	8.8Gbps	8.8Gbps	13.6Gbps	13.6Gbps
Forwarding Rate	6.6Mpps	6.6Mpps	10.1Mpps	10.1Mpps	10.1Mpps	10.1Mpps	10.1Mpps
10/100 Ports	12	24	24	24	24	48	48
100FX MT-RJ Ports	0	0	0	0	2	0	0
10/100/1000 Ports	0	0	2	0	0	2	0
1000SX MT-RJ Ports	0	0	0	2	0	0	2
GBIC Ports	0	0	0	0	0	0	0
SFP GE Ports	0	0	0	0	0	0	0
Support of WS-G5482	N/A						
Support of WS-G5483	N/A						
VLAN Trunking	802.1q only						
EtherChannel	All ports						
Voice-VLAN's	Yes						
Multi-VLAN Capable	No						
Max. MAC Addresses	8,000						
Max. MTU	1500 Bytes						
Multicast	IGMP Snooping in hardware (255 groups, max)						
Ingress Policing	None	6 policers per 10/100 port 60 policers per 1000 port					
Queues per port	4						
QoS Granularity	N/A	1Mbps (10/100 ports), 8Mbps (1000 ports)					
DSCP/CoS Remark.	No	Yes					
Heat (W), Max.	30					45	
Heat (BTU), Max.	102					154	
Dimensions (H/W/D)	1.72 x 17.5 x 9.52 in. (4.36 x 44.45 x 24.18 cm)					1.72 x 17.5 x 13 in. (4.36 x 44.5 x 33.02 cm)	
Operating Temp.	32 to 113°F (0 to 45°C)						
Storage Temp.	-13 to 158°F (-25 to 70°C)						
Relative Humidity	10 to 85% (noncondensing)						
Weight	6.5 lb (3kg)					10 lb (4.8kg)	
RPS Used	RPS-300/675						
MTBF (Hours)	318,440	268,292	297,144	268,292	403,214	268,876	274,916

### Notes - 2950 Series

While the 2950's have similar internal forwarding engines, a 2950-12, for instance, will never fully use the available bandwidth or forwarding rate. The numbers given are for capacity, not "fill-ability."

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## Catalyst 2950G/ST, 2970G Series

Feature	50G-12-EI	50G-24-EI	50G-48-EI	ST-8-LRE	ST-24-LRE	70G-24T	70G-24TS
EOS	No						
Form Factor	1 RU						1.5RU
Switch Fabric	8.8Gbps	8.8Gbps	13.6Gbps	8.8Gbps	8.8Gbps	24Gbps	28Gbps
Forwarding Rate	10.1Mpps	10.1Mpps	10.1Mpps	3.2Mpps	3.5Mpps	35.7Mpps	38.7Mpps
10/100 Ports	12	24	48	0	0	0	0
LRE Connections	0	0	0	8	24	0	0
1000 SFP GBIC Ports	0	0	0	2 (See Note)		0	4
10/100/1000 Ports	0	0	0	2 (See Note)		24	24
GBIC Ports	2	2	2	0	0	0	0
Support of WS-G5482	No			n/a			
Support of WS-G5483	Yes			n/a			
VLAN Trunking	802.1q only						
EtherChannel	All ports						
Voice-VLAN's	Yes						
Multi-VLAN Capable	No						
Max. MAC Addresses	8,000					12,000	
Max. MTU	1530 Bytes					9018 Bytes	
Multicast	IGMP Snooping in hardware (255 groups, max)					Same, 1000 group max	
Ingress Policing	6 policers per 10/100/LRE port 60 policers per 1000 port					64 policers per port	
Queues per port	4						
QoS Granularity	1Mbps (10/100/LRE ports), 8Mbps (1000 ports)					8Kbs-1Gbps	
DSCP/CoS Remark.	Yes						
Heat (W), Max.	30	30	45	30	45	135	190
Heat (BTU), Max.	102	102	154	102	154	460	650
Dimensions (H/W/D)	1.72 x 17.5 x 9.52 in. (4.36 x 44.45 x 24.18 cm)	3.5 in. (8.84cm) deeper	1.72 x 17.5 x 9.7 in. (4.36 x 44.5 x 24.6 cm)		1.73 x 17.5 x 12.8 in. (4.4 x 32.6 x 29.5 cm), see note		
Operating Temp.	32 to 113°F (0 to 45°C)						
Storage Temp.	-13 to 158°F (-25 to 70°C)						
Relative Humidity	10 to 85% (noncondensing)						
Weight	6.5 lb (3kg)	6.5 lb (3kg)	10.5 lb (4.8kg)	8.5 lb (3.9kg)	8.5 lb (3.9kg)	10 lb (4.55kg)	12.5 lb. (5.68kg)
RPS Used	RPS-300/675						
MTBF (Hours)	482,776	468,884	159,026	N/A	N/A	219,018	163,222

### Notes - 2950 Series

2970G-24TS is 2.59 in. (6.59cm) high and 11.60 in. (29.46 cm) deep, same width as -24T.

While the 2950G's have similar internal forwarding engines, a 2950G-12-EI, for instance, will never fully use the available bandwidth or forwarding rate. The numbers given are for capacity, not "fill-ability."

2950ST (LRE) switches may use either the 10/100/1000 uplinks **or** the SFP GBIC's, but not both at once.

# Portable Product Sheet - Catalyst 2900



## Catalyst 2940 Desktop, 2955 Industrial Ethernet Series

Feature	40-8TT	40-8TF	55T-12	55C-12	55S-12
EOS	No				
Form Factor	Desktop		Special (see Dimensions, below)		
Switch Fabric	3.2Gbps	3.2Gbps	13.6Mbps	13.6Mbps	13.6Mbps
Forwarding Rate	2.7Mpps	2.7Mpps	4.8Mpps	2.0Mpps	2.0Mpps
10/100 Ports (RJ-45)	8	8	12	12	12
10/100/1000 (RJ-45)	1	0	2	0	0
100M MM Fiber (MTRJ)	0	1	0	2	0
100M SM Fiber (LC)	0	0	0	0	2
SFP GE Ports	0	1	0	0	0
External Relay Ports	N/A		2		
VLAN Trunking	802.1q, 4 max. VLAN's		802.1q		
EtherChannel	All Ports				
Voice-VLAN's	Yes				
Multi-VLAN Capable	No				
Max. MAC Addresses	8,000				
Max. MTU	1500 Bytes				
Multicast	IGMP Snooping in hardware (255 groups, max)				
Ingress Policing	None		6 policers per 10/100/100FX port, 60 policers per 1000 port		
Queues per port	4				
QoS Granularity	N/A		1Mbps (10/100/100FX ports), 8Mbps (1000 ports)		
DSCP/CoS Remark.	No		Yes		
Heat (W), Max.	15		23		
Heat (BTU), Max.	50		102		
Dimensions (H/W/D)	1.55 x 10.6 x 6.42 in. (3.94 x 26.92 x 16.3 cm)		3.75 x 8.07 x 5.03 in. (9.52 x 20.5 x 12.77 cm)		
Operating Temp.	32 to 113°F (0 to 45°C)		-40 to 140°F (-40 to 60°C)		
Storage Temp.	-13 to 158°F (-25 to 70°C)		-40 to 185°F (-40 to 85°C)		
Relative Humidity	10 to 85% (noncondensing)		10 to 95% (noncondensing)		
Shock	N/A		50 g at 11ms		
Vibration	N/A		500Hz (meets or exceeds MIL-		
Operating Altitude	Up to 10,000 ft (3000 m)				
Storage Altitude	Up to 15,000 ft (4570 m)		Up to 30,000 ft (9000 m)		
Weight	3 lb (1.36 Kg)		3.1 lbs (1.41 Kg)		
DC Power Req's	N/A		24 V (18 V minimum to 32 V maximum range)		
MTBF (Hours)	771,000	636,000	235,022	206,378	205,115

### Notes - 2940/2955 Series

2955 - The DC-input power supply is a SELV circuit, and it can only be connected to another SELV circuit.

2955 - DC power lines should be 18-20 AWG and have 0.25 in. of insulation removed for connection.

Only one of the ports, 100FX or SFP GBIC, on the 2940-8TF may be active at one time.

# Portable Product Sheet - Catalyst 2900



## Catalyst 2900 "XL" Series

Feature	12MF	24M	16M	24	24C	12	08
EOS	April 9, 2004		Mar-99	November 1, 2001			Mar-99
Form Factor	2 RU	2 RU	2RU	1RU	1RU	1RU	2 RU
Switch Fabric	3.2Gbps						
Forwarding Rate	3.0Mpps						
10/100 Ports	0	24	16	24	22	12	8
100FX SC MM Ports	12	0	0	0	2	0	0
Expansion Slots	2	2	2	0	0	0	0
Support of WS-G5482	Yes	Yes	No	N/A	N/A	N/A	N/A
Support of WS-G5483	Yes	Yes	No	N/A	N/A	N/A	N/A
VLAN Trunking	ISL, 802.1Q		No	ISL, 802.1Q			No
EtherChannel	All ports						
Voice-VLAN's	No						
Multi-VLAN Capable	All ports		No	All ports			No
Max. VLAN's	250	250	64	64	64	64	64
Max. STP Instances	64	64	64	64	64	64	64
Max. MAC Addresses	8,000	8,000	2,000	2,000	2,000	2,000	2,000
Max. MTU	2,018		1,530	2,018			1,530
Multicast	CGMP only						
Policing	None						
Queues per port	2						
QoS Granularity	N/A						
DSCP/CoS Remark.	No						
Heat (W), Max.	90(170)	90(170)	100(200)	110	110	70	70
Heat (BTU), Max.	307(580)	307(580)	340(680)	375	375	239	239
Dimensions	3.46 x 17.5 x 12 in. (8.8 x 44.5 x 30.5 cm)			1.73 x 17.5 x 9.79 in. (4.4 x 44.5 x 24.8 cm)			
Operating Temp.	32 to 113°F (0 to 45°C)						
Storage Temp.	-4 to 149°F (-10 to 65°C)						
Relative Humidity	10 to 85% (noncondensing)						
Weight	14 (15.5)lb 6.3 (7)kg	13.5 (15)lb 6.1 (6.8)kg	14 (15.5)lb 6.3 (7)kg	9.35 lb 4.25 kg	9.5 lb 4.3 kg	7 lb 3.2 kg	7 lb 3.2 kg
RPS Used	RPS-600						
MTBF (Hours)	164,528	164,528					N/A

### Notes - 2900 XL Series

While the 2916M cannot trunk on its fixed ports, it may trunk on modules if running 11.2(8)SA5 Enterprise. The 2924 and 2924C also originally came in a 4Mb DRAM version similarly limited as the 2908 and 2916M. Numbers in parenthesis denote values if two modules are installed.

# Portable Product Sheet - Catalyst 2900



## Catalyst 2900 "XL" Series Ethernet Expansion Modules

Feature	2914-XL-V	2922-XL-V	2924-XL-V	2931-XL	2932-XL	2914-XL	2922-XL
EOS	April 9, 2004					March 26, 1999	
10/100 Ports	4	0	0	0	0	4	0
100FX SC MM Ports	0	2	4	0	0	0	2
GBIC Ports	0	0	0	1	0	0	0
1000BaseT	0	0	0	0	1	0	0
VLAN Trunking	ISL, 802.1q					No	
EtherChannel	All port(s)						
Multi-VLAN Capable	All port(s)						
Max. MAC Addresses	8,000					2,000	
MTBF (Hours)	602,722						

## Catalyst 2900 "XL" Series ATM Expansion Modules

Feature	2951-XL	2961-XL	2971-XL	2972-XL
EOS	July 27, 2002			
ATM OC-3 Ports	1			
OC-3 Media Type	UTP	MMF	SMF-SR	SMF-LR
VLANs (ELANs)	64			
Max. MAC Addresses	8,000			
LANE 1.0	Yes			
RFC-1483 Bridged PVCs	Yes			
MTBF (Hours)	602,722			