



Portable Product Sheets – Catalyst 5xx and 29xx

Last updated October 29th 2007

Table 1 Catalyst Express 500 Series

Feature	500-24TT	500-24LC	500-24PC	500G-12TC
EOS	No			
Form Factor	1 RU			
Switch Fabric	8.8Gbps	8.8Gbps	8.8Gbps	24Gbps
Forwarding Rate	6.6Mpps	6.6Mpps	6.6Mpps	18Mpps
10/100 Ports	24	24 (4 PoE)	24 (All PoE)	0
10/100/1000 Ports (see note)	2	2	2	12
SFP GE Ports (see note)	0	2	2	4
VLAN Trunking	802.1q only			
EtherChannel	All ports			
Voice-VLAN's	Yes			
Multi-VLAN Capable	No			
Max. MAC Addresses	8,000			
Max. MTU	1,500 Bytes			
Multicast	IGMP Snooping in hardware			
Ingress Policing	None			
Queues per port	4			
QoS Granularity	N/A			
DSCP/CoS Remark.	Yes			
Heat (W), Max.	30	45	90	45
Heat (BTU), Max.	102	154	307	154



Dimensions (H/W/D)	1.73 x 17.5 x 9.9 in. (4.39 x 44.45 x 25.15 cm)	1.73 x 17.5 x 14.4 in. (4.39 x 44.45 x 36.58 cm)	1.73 x 17.5 x 9.9 in. (4.39 x 44.45 x 25.15 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	8 lb (3.7kg)	12 lb (5.5kg)	8 lb (3.7kg)
RPS Used	No	RPS-675	No
MTBF (Hours)	308,482	282,705	211,167

Notes:

The 500-24LC and 500-24PC models can have either two 10/100/1000 or two SFP ports. The 500G-12TC model can have either four 10/100/1000 or four SFP ports. The 500G-12TC model has a minimum of eight 10/100/1000 ports

Table 2 Catalyst 2950 Series

Feature	50-12	50-24	50T-24	50SX-24	50C-24	50T-48	50SX-48
EOS	No		12/31/2006	No		12/31/2006	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	N/A						



G5482							
Support of WS-G5483							
VLAN Trunking	802.1q only						
EtherChannel	All ports						
Voice-VLAN's	Yes						
Multi-VLAN Capable	No						
Max. MAC Addresses	8,000						
Max. MTU	1,500 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:



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"

Table 3 Catalyst 2960 Series

Feature	60-24TT	60-24TC	60-48TT	60-48TC	60G-24TC	60G-48TC	60-8TC/60G-8TC
EOS	No						
Form Factor	1 RU						
Switch Fabric	32Gbps	32Gbps	32Gbps	32Gbps	32Gbps	32Gbps	16/32Gbps
Forwarding Rate	6.5Mpps	6.5Mpps	10.1Mpps	10.1Mpps	35.7Mpps	39.0Mpps	2.7/11.9 Mpps
10/100 Ports	12	24	48	48	24	0	8/0
10/100/1000 Ports	2	0	2	0	24	48	0/8
Dual Purpose Uplink Ports	0	2	0	2	4	4	1/4
VLAN Trunking	802.1q only						
EtherChannel	All ports						
Voice-VLAN's	Yes						
Multi-VLAN Capable	No						
Max. MAC Addresses	8,000						
Max. MTU	9000 Bytes						
Multicast	IGMP Snooping in hardware (255 groups, max)						
Ingress Policing	None						
Queues per port	4						
QoS Granularity	1Mbps						
DSCP/CoS Remark.	Yes						
Heat (W), Max.	30		45		75	140	20/30
Heat (BTU), Max.	102					N/A	N/A
Dimensions (H/W/D)	1.73 x 17.5 x 9.3 in. (4.4 x 44.5 x 23.6 cm)				1.73 x 17.5 x 12.9 in. (4.4 x	1.73 x 17.5 x 12.9 in. (4.4 x	1.73x10.6x6.4 / 1.73x10.6x8.1



			44.5 x 32.8 cm)	44.5 x 32.8 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	8.0 lb (3.6kg)		10.0 lb (4.5kg)	12 lb (5.4 kg)	3lb (1.4 kg)		
RPS Used	RPS-675				N/A		
MTBF (Hours)	282,416	280,271	245,213	243,595	219,629	167,606	557,515 / 463,159

Notes: The Catalyst 2960-8TC and Catalyst 2960G-8TC do not have RPS ports

Table 4 Catalyst 2950G/ST, 2970 Series

Feature	50G-12-EI	50G-24-EI	50G-48-EI	ST-8-LRE	ST-24-LRE	70G-24T	70G-24TS
EOS	12/31/2006			10/2/2006		10/16/2006	
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	1,530 Bytes			9,018 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:

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."

Table 5 Catalyst 2940 Desktop, 2955 Industrial Ethernet Series, 2948G-GE-TX



Feature	40-8TT	40-8TF	55T-12	55C-12	55S-12	48G-GE-TX
EOS	No					
Form Factor	Desktop		Special (see Dimensions, below)			1RU
Switch Fabric	3.2Gbps	3.2Gbps	13.6Mbps	13.6Mbps	13.6Mbps	20Gbps
Forwarding Rate	2.7Mpps	2.7Mpps	4.8Mpps	2.0Mpps	2.0Mpps	29.76Mpps
10/100 Ports (RJ-45)	8	8	12	12	12	0
10/100/1000 (RJ-45)	1	0	2	0	0	48
100M MM Fiber (MTRJ)	0	1	0	2	0	0
100M SM Fiber (LC)	0	0	0	0	2	0
SFP GE Ports	0	1	0	0	0	4
External Relay Ports	N/A		2			0
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					16,000
Max. MTU	1,500 Bytes					1,522 Bytes
Multicast	IGMP Snooping in hardware					(255 groups, max)
Ingress Policing	None		6 policers per 10/100/100FX port, 60 policers per 1000 port			N/A
Queues per port	4					2
QoS Granularity	N/A		1Mbps (10/100/100FX ports), 8Mbps (1000 ports)			N/A
DSCP/CoS Remark.	No		Yes			Yes
Heat (W), Max.	15		23			130
Heat (BTU), Max.	50		102			445



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)	1.73 x 17.5 x 17 in (4.39 x 44.5 x 43.1 cm)			
Operating Temp.	32 to 113°F (0 to 45°C)	-40 to 140°F (-40 to 60°C)	32 to 113°F (0 to 45°C)			
Storage Temp.	-13 to 158°F (-25 to 70°C)	-40 to 185°F (-40 to 85°C)	-13 to 158°F (-25 to 70°C)			
Relative Humidity	10 to 85% (noncondensing)	10 to 95% (noncondensing)	10 to 85% (noncondensing)			
Shock	N/A	50 g at 11ms	N/A			
Vibration	N/A	500Hz (meets or exceeds MIL-STD-810, Method 514.4)	N/A			
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)	Up to 15,000 ft (4570 m)			
Weight	3 lb (1.36 Kg)	3.1 lbs (1.41 Kg)	13 lb (5.9kg)			
DC Power Req's	N/A	24 V (18 V minimum to 32 V maximum range)	N/A			
MTBF (Hours)	771,000	636,000	235,022	206,378	205,115	146,280

Notes:

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

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

2948G-GE-TX - This switch uses CatOS (minimum 8.2(1)GLX release)



Table 6 Catalyst 2900XL 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 Bytes		1,530 Bytes	2,018 Bytes			1,530 Bytes
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. 44.5 x 30.5 cm	(8.8 x	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	13.5 (15)lb	14 (15.5)lb	9.35 lb	9.5 lb	7 lb	7 lb
	6.3 (7)kg	6.1 (6.8)kg	6.3 (7)kg	4.25 kg	4.3 kg	3.2 kg	3.2 kg
RPS Used	RPS-600						
MTBF (Hours)	164,528	164,528	N/A				

Notes:

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.



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