

Portable Product Sheet - C6K Supervisors



Last Updated: March 17, 2005

Catalyst 6000 Supervisors - Supervisor 720/32 Variants

Feature	Sup 720	Sup720-3B	Sup 720-3BXL	Sup32
Chassis Support	65xx, 76xx			
EOS	No			
Redundant Supervisors	Yes (Note: Must be identical models and feature cards)			
CPU	600MHz			300MHz
PFC	PFC3A	PFC3B	PFC3BXL	PFC3B
MSFC	MSFC3			MSFC2A
Switch Fabric	Integrated			32G shared
Software Required	8.1(1) (Hybrid) 12.2(14)SX	8.3(2) (Hybrid) 12.2(17d)SXB	12.2(17b)SXA	8.4 (Hybrid) 12.2(17d)SXB7
Fixed Uplinks	(1)SFP, (1)SFP/Copper (10/100/1000)			(8) SFP or (2)10G
Modular Uplinks	No			
Onboard GE Queues	1p1q4t(Rx)/1p2q2t(Tx)			
VRF Lite Support	Yes	Yes	Yes	
MPLS Support	No	Yes	Yes	
MPLS VRF Limits	n/a	700 VRF 350 routes/vrf	1,024 VRF's 700 routes/VRF	700 VRF 350 routes/vrf
Maximum IP routes	256,000 (IPv4)	256,000 (IPv4)	1,000,000 (IPv4)	256,000 (IPv4)
Maximum Netflow Entries	128,000	256,000	256,000	128,000
Backplane Connection(s)	32, 256, 720 Gbps			32 Gbps
Flash Slot	(2) Compact Flash			(1) Compact Flash
Flash Card Capacity	128/256/512/1024MB			
Onboard Flash Capacity	64 MB			256 MB
Default DRAM	512 MB	512 MB	1 GB	256 MB
Maximum DRAM	1 GB			
DRAM Slots	1			
NVRAM	512 KB			2 MB
Power Supply	2500W minimum			
Console/Aux Port	RJ-45 Console			
Max # of MAC Addresses	64,000			
Current Draw	7.5A (315W)	6.72A (282W)	7.82A (328W)	3.69A (154.98W)
Dimensions (H/W/D)	1.6 x 15.3 x 16.3 in. (4.0 x 37.9 x 40.3 cm)			
Operating Temperature	32 to 104° F (0 to 40° C)			
Storage Temperature	-40 to 167° F (-40 to 75° C)			
Relative Humidity	10% to 90%, non-condensing			
USB support	NO			Yes (2)

Notes - Supervisor 720/32 Variants

Maximum DRAM on the Sup720 is 1GB (not available as a spare) - only offered with the 3BXL upgrade.

Portable Product Sheet - C6K Supervisors

Catalyst 6000 Supervisors - 1st and 2nd Generation Supervisors

Feature	Supervisor 1A	Supervisor 2	Supervisor 2U
Chassis Support	6x06/6x09/6503 7603 (w/MSFC2)	65xx, 76xx	65xx, 76xx
EOS	Yes	No	No
Redundant Supervisors	Yes (Note : Must be identical models and feature cards)		
CPU	150MHz R4700	250MHz RM7000	250MHz RM7000
PFC	PFC (optional)	PFC2	PFC2
MSFC	MSFC/MSFC2 (opt.)	MSFC2 (opt.)	MSFC2
Switch Fabric	N/A	SFM or SFM2	SFM or SFM2
Software Required	5.3(1a) (Hybrid) 12.0(7)XE (Native)	6.1(1d)(Hybrid) 12.1(8a)E(Native)	
Fixed Uplinks	(2) GBIC		
Modular Uplinks	No		
Onboard GE Queues	1p1q4t(Rx)/1p2q2t(Tx)		
Backplane Connection(s)	32 Gbps	32 and 256 Gbps	32 and 256 Gbps
Flash Slot	(1) PCMCIA		
Flash Card Capacity	16, 24MB(16MB def.)	16, 24MB (16MB def), 64MB FD	16, 24MB (16MB def), 64MB FD
Onboard Flash Capacity	16 MB	32 MB	32 MB
Default DRAM	128 MB	256MB	256MB
Maximum DRAM	128 MB	512 MB	512 MB
DRAM Slots	1		
NVRAM	256 KB	512 KB	512 KB
Power Supply	Any		
Console/Aux Port	RJ-45 CON/AUX	RJ-45 CON	RJ-45 CON
Max # of MAC Addresses	128,000	128,000	128,000
Dimensions (H/W/D)	1.6 x 15.3 x 16.3 in. (4.0 x 37.9 x 40.3 cm)		
Operating Temperature	32 to 104° F (0 to 40° C)		
Storage Temperature	-40 to 167° F (-40 to 75° C)		
Relative Humidity	10% to 90%, non-condensing		

Notes - Supervisor (1st and 2nd Gen)

The "optional" PFC on the Supervisor 1A may not be added as a FRU - it must be ordered that way from the factory. Only the MSFC is truly modular - PFC addition to the Supervisor 1A requires a trade-in.

Sup2 units with bootrom v7.1(1) or later and 12.1(8a)EX (Native) software may use flash disks. Sup2 units shipped prior to January 2001 shipped with 16Mb default onboard flash. 32Mb requires 6.1(3) bootrom's.

If doing DFC's on the WS-X65xx or WS-68xx linecards, 256Mb DRAM on the SUP2 is required.

Default memory on the Sup2 increased from 128MB to 256MB on August 1, 2004.

PFC has 16,000 entries for both QoS and ACL's, while PFC2 has 32,000 for QoS and 32,000 for ACL.

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Catalyst 6000 Multilayer Switch Feature Cards (MSFC's)

Feature	MSFC	MSFC 2	MSFC 3
Required Software	5.3(1), 12.0(3)XE(Hybrid) 12.1(2)E (Native)	5.4(2), 12.1(2)E (Hybrid) 12.1(8a)E (Native)	12.2(14)SX2 (Hybrid) 12.2(14)SX (Native)
Onboard Flash	16 MB	32 MB	64 MB
CPU	200MHz R5000	300MHz RM7000	600MHz
EOS	February 28, 2002	No	No
Default DRAM	64 MB	256MB (if ordered with Sup2) 512MB (if ordered with Sup2U)	512 MB (or 1GB, if with the 720-3BXL)
Maximum DRAM	128 MB	512 MB	1 GB
DRAM Slots	1	1	1
DRAM Type	EDO DRAM	ECC SDRAM	ECC SDRAM
NVRAM	128 KB	512 KB	2 MB
High Speed Packet Memory	4 MB	8 MB	
Maximum WAN Interfaces	384	800	
Maximum Terminated VLANs	256	2,000	
WCCPv2 Performance	50,000cps	150,000cps	Not Supported
IPv4, IPMC Switching	15,000,000pps	30,000,000pps	30,000,000pps
Fast Switch Performance	170,000pps	500,000pps	500,000pps
Dimensions	0.6 x 15.25 x 8 in. (1.52 x 38.74 x 20.32 cm)	0.093 x 15.62 x 7.9 in. (0.236 x 39.675 x 20.066 cm)	
Operating Temperature	32 to 104° F (0 to 40° C)		
Storage Temperature	-40 to 167° F (-40 to 75° C)		
Relative Humidity	10% to 90%, non-condensing		

Notes - MSFC

MSFC/MSFC2 requires use of PFC/PFC2. FlexWan linecard requires a MSFC/MSFC2.

MSFC/MSFC2's are not addable to a Supervisor 1A-PFC after the fact (as a FRU) since risers are not included. MSFC/MSFC2's are only addable to Supervisor 1A's that previously had a MSFC/MSFC2.

If the MSFC2 is doing full Internet routes and/or MPLS, 512Mb DRAM is required. MSFC (1) does not have enough DRAM to run full Internet routes.

MSFC2's shipped prior to July 1, 2002 shipped with 16MB bootflash.

Release 12.1(13)E includes support for 4,096 VLAN's, but it is not recommended to exceed 2,000.

MSFC2 memory went to 256MB default on August 1, 2004 (previously was 128MB). 512MB is default for Sup2U orders after that same date (previously was 256MB)

Cells depicted in light blue are unknown at this time, and will be filled in as details become available.