IBM SCSI Controllers (Micro Channel)

Controller	Micro Channel SCSI Adapter with Cache	PS/2 SCSI-2 Adapter/A	SCSI-2 Fast/Wide Adapter/A
Implementation	Planar/card - old PS/2's	Adapter in 76s, 77s	Planar in Model 85 433, 466 Adapter in 95 466, 560, 566
			Adapter in Serv 500 non-array models
	Option (Options by IBM™)	Option	Option (Options by IBM)
SCSI type	SCSI-1	SCSI-2 Fast	SCSI-2 Fast/Wide
SCSI bus path / speed	8 bit / 5 MB/sec	8 bit / 10 MB/sec	16 bit / 20 MB/sec
I/O Architecture		Micro Channel	Micro Channel
I/O bus path / speed	32 bit / 16.6 MB/sec	16 bit / 3 MB/sec	32 bit / 40 MB/sec streaming
I/O features			Streaming data transfer
			Address parity and data parity
RAID levels	None (use software)	None (use software)	None (use software)
Tagged Command Queuing	No	No	Yes
Processor	80188 at 16 MHz	None (PIO)	80C186 at 20 MHz
Size	Type 3 (long)	Half length - Type 3	Type 3 (short)
Channels	One (internal/external)	One (internal/external)	Two (one internal/one external)
Connectors	One internal: one external	One internal: one external	Two internal for SCSI-1 or
			SCSI-2 cabling (only one active): one external
Devices supported	7 devices per adapter	7 devices per adapter	7 devices per adapter
Devices supported		r deviced per adapter	15 devices on Server 500 on
			one or two channels
Cache std / max	512 KB / 512 KB	0 KB / 0 KB (8 KB buffer)	0 KB / 0 KB (128 byte buffer)
Cache method	Two SIMMs	N/A	N/A
Cache configurations	N/A	N/A	N/A
Cache write policy	Write-through	N/A	N/A
Available date	March 1992	lune 1994	September 1993
Price (retail LISD)	\$ 379	\$ 233	€ 515 a .
Part number	70G8497 (old 6451133)	8264868	70G8498 (old 6451280)
Controller	SCSI-2 RAID Controller	SCSI-2 Fast/Wide Streaming	
Levels as a faller	A daw taw in Mandal OF amount of all	RAID Adapter/A	1-1-
Implementation	Adapter in Model 95 array models	Adapter in Server 500 array mod	dels
	Not available as option		
		SCSI-2 Fast/wide	
SCSI bus path / speed	16 DIT / 20 MB/Sec	16 DIT / 20 MB/sec	
I/O Architecture			
I/O bus path / speed	32 bit / 40 MB/sec streaming	32 bit / 40 MB/sec streaming	
I/O reatures	Streaming data transfer	Streaming data transfer	
DAID lovele			
RAID levels	Aind (A.B.C.D.) (8 logical arrays	Aind (A B C D) / 8 logical arrays	
Taggod Command Quaving	4 Ind (A,B,C,D) / 8 logical arrays	4 Ind (A,B,C,D) / 8 logical arrays	
Tagged Command Queuing			
Size	$\frac{1900 \text{ at } 25 \text{ WHZ}}{\text{Type } 5 \text{ (ank) fits in Model 85 or 05)}}$	1960 at 25 MHz	
Size	Type 5 (Only fills in Model 65 of 95)	Type 3 (run length)	
Connectoro	Two (Doin Internal)	Two (see Note T)	+
Connectors	r wo internal daviago)	Finee (side card included excep	
Devices supported	Z devices per edepter	Server 500 does not include	
Cache atd (max	4 MP (64 MP (with parity)	4 MP (4 MP (with parity) 60 pc	
Cache method	+ wid / 04 wid (with party) A sockets for 20 nin 20no SIMMo	Soldered on adapter	
Cache configurations	4 16 or 64 MR only	N/A	
Cache write policy	Write-through or write-back	Write-through or write-back	
Available date	N/A (November 1993 for Servers)	May 1994	
Price (retail LISD)	N/A	\$ 2 395	
Part number	N/A (not available as option)	7069263	
		1000200	
Note1: SCSL2 Fast/Wide Streaming RAID Adapter/A			
There are 3 connectors on adapter: one external and two internal			
One internal is the opposite end of the external and can only be used if external is			
not used (this is first SCSI bus which has 2 connectors).			
The other internal can go to internal devices or go to the standard sidecard (this is			
second SCSI bus which has 1 connector).			
The sidecard ships standard and uses a Micro Channel slot. It is only used if want			
external devices on this bus (sidecard does not ship on Server 500 array models).			
So only two connectors can be used at one time and can not mix internal and			
external devices on the same bus.			
n suppons o unves as part of the same physical array spread across two 5051			
The 2 SCSI buses will be either (1) both external or (2) one internal and one external			
or (a) both internal			

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Price decrease effective February 28, 1994