

# 9.1GB ~ 146.8GB pSeries SCSI Disk Drive Cross Reference

<http://www.riscanalysis.com>

FC	Feature Name	SCSI	Data Rate	RPM	Pins	68/80
2913	9.1GB F/W H/S	U	40MB/s	7200	68	
3002	9.1GB F/W H/S	U	40MB/s	10K	68	
3025	9.1GB	U2	80MB/s	10K	80	x
3027	9.1GB F/W	U	40MB/s	10K	68	
3152	9.1GB	U3	160MB/s	10K	80	
4326	9.1GB F/W H/S Book	U	40MB/s	7200	68	
3026	18.2GB	U2	80MB/s	10K	80	x
3102	18.2GB F/W	U	40MB/s	10K	68	
3104	18.2GB F/W H/S	U	40MB/s	7200	68	
3111	18.2GB F/W H/S	U	40MB/s	10K	68	
3117	18.2GB F/W H/S	U	40MB/s	10K	68	
3153	18.2GB	U3	160MB/s	10K	80	
3157	18.2GB	U3	160MB/s	10K	80	
3263	18.2GB H/S	U3	160MB/s	10K	80	
3272	18.2GB	U320	320MB/s	10K	80	
3119	36.4GB F/W	U	40MB/s	10K	68	
3129	36.4GB	U3	160MB/s	10K	80	x
3158	36.4GB	U3	160MB/s	10K	80	
3169	36.4GB	U2	80MB/s	10K	68	
3264	36.4GB H/S	U3	160MB/s	10K	80	
3273	36.4GB	U320	320MB/s	10K	80	
3277	36.4GB	U320	320MB/s	15K	80	
3280	36.4GB	U3	160MB/s	15K	80	
3118	73.4GB	U3	160MB/s	10K	68	
3159	73.4GB	U3	160MB/s	10K	80	x
3265	73.4GB	U3	160MB/s	10K	80	
3274	73.4GB	U320	320MB/s	10K	80	
3278	73.4GB	U320	320MB/s	15K	80	
3281	73.4GB	U3	160MB/s	15K	80	
3275	146.8GB	U320	320MB/s	10K	80	
3276	146.8GB	U3	160MB/s	10K	80	

pSeries	680	620	620	660	660	660	640	610	630	630	615	650	650	655	670 & 690
MT	7017	7025	7025	7026	7026	7026	7026	7028	7028	7311	7029	7038	7311	7039	7040
Models	S85	6F0	6F1	6H0	6H1	6M1	B80	6C1 6E1	6C4 6E4	D20	6C3 6E3	6M2	D10	651	61D 671 681

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## Notes:

1 A check mark in the Disk Drives 68/80 column indicates this feature is available as both a 68 pin and 80 pin version. Only the 80-pin version applies for this chart.

## 2 I/O Drawers

The 7311-D10 is the I/O Drawer for the pSeries 650 7038-6M2

The 7311-D20 is the I/O Drawer for the pSeries 630 7028-6C4

The 7040-61D is the I/O Drawer for the pSeries 670 7040-671 and the pSeries 690 7040-681

## 3 SCSI Type Key

(Also known as:)

U = Ultra SCSI                      Fast SCSI

U2 = Ultra2 SCSI                    Fast 40

U3 = Ultra3 SCSI                    Ultra160, Fast 80

U320 = Ultra320 SCSI              U4, Fast 160

## 4 Drive Type IDs (IBM/Hitachi)

Before IBM sold their storage division to Hitachi, the Drive Type ID was based upon the drive series. i.e. DMVS, DVRS etc. Since Hitachi took over, the Drive Type IDs have been modified to comply with Hitachi's naming conventions.

A complete Hitachi Drive Type list, including IBM Drive Type IDs is available from Hitachi at this address:

[http://www.hgst.com/tech/techlib.nsf/techdocs/CBD730A1B7F8CA4586256D5000676A7E/\\$file/QUICKSPEX10.23.03.pdf](http://www.hgst.com/tech/techlib.nsf/techdocs/CBD730A1B7F8CA4586256D5000676A7E/$file/QUICKSPEX10.23.03.pdf)

## 5 Drive Type IDs (Seagate)

Seagate do not have a single list of drive specs by Drive Type. For RS/6000 and pSeries drives, refer to the table on page 3:

## 6 Drive Type IDs and Feature Considerations

A Feature Code is not always specific to a given Drive Type.

For example, when the original 9.1GB Ultra Fast/Wide Drives were no longer available, the Ultra2 drives were considered a valid replacement. Consequently, although the Drive Type ID changed, the Feature Code did not. This was not an issue because the replacing drive was functionally equivalent to the earlier drive while having improved specs. In addition, the PN and/or FRU was different for a different spec drive or Drive Type ID.

However, we have identified several drives apparently using the same PN/FRU for two different Drive Type IDs.

In particular, this affects the following features and PNs:

PN	FC	Name	Specifics
09P4437	3263	18.2GB 80 Pin 10K RPM	U160 SCSI if Drive Type ST318305LC U320 SCSI if Drive Type ST318307LC
09P3823	3263	18.2GB 80 Pin 10K RPM	U160 SCSI if Drive Type DDYS-T18350M U160 SCSI if Drive Type IC35L018 UCD210 U320 SCSI if Drive Type IC35L018 UCDY10
09P3826	3264	36.4GB 80 Pin 10K RPM	U160 SCSI if Drive Type DDYS-T36950M U160 SCSI if Drive Type IC35L036 UCD210 U320 SCSI if Drive Type IC35L036 UCDY10
09P4447	3264	36.4GB 80 Pin 10K RPM	U160 SCSI if Drive Type ST336605LC U320 SCSI if Drive Type ST336607LC
09P4890	3265	73.4GB 80 Pin 10K RPM	U160 SCSI if Drive Type ST373405LC U320 SCSI if Drive Type ST373407LC

## 7 Ultra320 Drives and Backplane Features

In October 2003, IBM re-announced and renamed certain drives and backplanes as Ultra320. This applies to the following:

FC	Name
3273	36.4GB Ultra320 SCSI Disk Drive 10K RPM 80 Pin (320MB/s)
3274	73.4GB Ultra320 SCSI Disk Drive 10K RPM 80 Pin (320MB/s)
3275	146.8GB Ultra320 SCSI Disk Drive 10K RPM 80 Pin (320MB/s)
3277	36.4GB Ultra320 SCSI Disk Drive 15K RPM 80 Pin (320MB/s)
3278	73.4GB Ultra320 SCSI Disk Drive 15K RPM 80 Pin (320MB/s)
6429	Ultra320 SCSI Backplane for Hot-swap Disks
6574	Ultra320 SCSI 4-Pack
6579	Split Ultra320 SCSI Backplane For Hot-Swap Disks (Split 4-pack)

## 8 Ultra320 SCSI Controller and Ultra320 Drive Microcode Considerations

Disk drives internal to the pSeries system shipped prior to September 1, 2003 require a disk drive microcode update to run at U320 speed. Refer to:

<http://techsupport.services.ibm.com/server/mdownload/>

## 9 Seagate Drive Type IDs and Specs

Drive ID	Drive Name	Data Rate	Pins	RPM	Note
ST3146807LC	Cheetah 10K.6	U320	80	10K	
ST3146807LW	Cheetah 10K.6	U320	68	10K	
ST318203LC	Cheetah 18LP	U2	80	10K	
ST318203LCV	Cheetah 18LP	U2	80	10K	
ST318203LW	Cheetah 18LP	U2	68	10K	
ST318203LWV	Cheetah 18LP	U2	68	10K	
ST318233LCV	Cheetah 18LP	U160	80	10K	
ST318233LWV	Cheetah 18LP	U160	68	10K	
ST318305LC	Cheetah 73LP, LVD	U160	80	10K	*
ST318305LW	Cheetah 73LP, LVD	U160	68	10K	*
ST318307LC	Cheetah 10K.6	U320	80	10K	*
ST318307LW	Cheetah 10K.6	U320	68	10K	*
ST318453LC	Cheetah 15K.3	U320	80	15K	
ST318453LW	Cheetah 15K.3	U320	68	15K	
ST336605LC	Cheetah 73LP	U160	80	10K	
ST336605LCV	Cheetah 73LP	U160	80	10K	
ST336605LW	Cheetah 73LP	U160	68	10K	
ST336607LC	Cheetah 10K.6	U320	80	10K	
ST336607LW	Cheetah 10K.6	U320	68	10K	
ST336753LC	Cheetah 15K.3	U320	80	15K	
ST336753LW	Cheetah 15K.3	U320	68	15K	
ST34502LC	Cheetah 9LP	U2	80	10K	
ST34502LW	Cheetah 9LP	U2	68	10K	
ST373307LC	Cheetah 10K.6	U320	80	10K	
ST373307LW	Cheetah 10K.6	U320	68	10K	
ST373405LC	Cheetah 73LP	U160	80	10K	
ST373405LCV	Cheetah 73LP	U160	80	10K	
ST373405LW	Cheetah 73LP	U160	68	10K	
ST373405LWV	Cheetah 73LP	U160	68	10K	
ST373453LC	Cheetah 15K.3	U320	80	15K	
ST373453LW	Cheetah 15K.3	U320	68	15K	
ST39102LC	Cheetah 9LP	U2	80	10K	
ST39102LW	Cheetah 9LP	U2	68	10K	
ST39103LC	Cheetah 18LP	U2	80	10K	
ST39103LCV	Cheetah 18LP	U2	80	10K	
ST39103LW	Cheetah 18LP	U2	68	10K	
ST39103LWV	Cheetah 18LP	U2	68	10K	
ST39133LCV	Cheetah 18LP	U160	80	10K	
ST39133LWV	Cheetah 18LP	U160	68	10K	

\* Seagate have no record of these Drive Type IDs.  
 \* The specs for these drive have been determined by Digital Training based on  
 \* known attributes of the drives.  
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