

Integration Guide ZDF-1 Disk/Tape Controller

ZDF-1 Disk/Tape Controller has been verified by Engineering for use in the following disk and tape drives and Data General CPU's.

CPU	Bus	Disk Drivers*	* Tape: 6021/MTX	6125/MTA
NOVA 4 S/120 S/140 S/280	DCH DCH DCH DCH DCH	RDOS RDOS & AOS RDOS & AOS RDOS & AOS	R DO S R DO S R DO S R DO S R DO S	N/A AOS AOS AOS
* Operati ** Disk [ng Syst Drivers	ems = RDOS (6. = 6060, 6061,	0 to 7.5) and AOS 6067, 6160, 6161,	(6.0 to 7.5) 6122, 6214

ZDF-1 FEATURES SUMMARY

- ** Requires an "I/O ONLY" slot in the chassis.
- ** Both FCC & Non-FCC cabling styles are off the backplane.
- DISK: * Supports Data Transfer Rates & Formats: 1.2 MB/sec (10 Mhz) = ZETA 1 and compatibles 1.8 to 2 MB/sec (16 Mhz) = ZETA 3
- TAPE: * Supports Data Transfer Rates up to 1 MB/sec.
 - * Supports tri-density tape drives when density selection is made from the tape drive.

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SECTION B: Verified Drives

LEGEND: SS = Start/Stop S = Streamer SS/S = Start/Stop & Streamer

Tape Drives

Drive Model	800 bpi (NRZI)		1600 bpi (PE)		6250 bpi (GCR)				
	TYPE	IPS	KB/sec	TYPE	IPS	KB/sec	TYPE	IPS	KB/sec
Cipher F880				S	100	160			
<u>CDC 92185-01</u>				S	75	120	S	75	469
Fujitsu 2444				CD	75	120	S	75	469
Kennedy 9400	55	75	60	SS	75	120	SS	45	281
Kennedy 9600	S	100	80	S	100	160			
STC 2921				SS	50	80	SS	50	312
Telex 9251	SS	50	-J	SS	50	80	SS	50	312

Disk Drives

Disk Drive Model	Xfer Rate	Un- formatted	FORMATTED CAPACITY			
DISK DITVE MUUEI	MB/sec	Capacity	RDOS Below Rev. 7.0	RDOS, Rev. 7.0 & Above	AOS	
CDC 9710 RSD	1.2	82	67	73	73	
CDC 9715-160 FSD	12	165	134	147	147	
CDC 9720-368 Sabre	1.8	368	149/149	324	147	
CDC 9771 XMD-I	18	825	268/268	360/360	147/147	
Fujitsu 2351 Eagle	1.9	475	207/207	207/207	190/190	

Drives not listed above may be submitted to ZETACO for integration testing on a time-and-materials basis. Call the ZETACO Sales Team for details on how.

Part No:

940-019-00

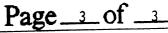
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SECTION C: If you know of devices, other than those listed in Section B, that are running with ZDF-1, please write, telex or fax our Customer Support Group with the information so they can be added to this section.



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ZDF-1 Disk/Tape Controller has been verified by Engineering for use in the following disk and tape drives, and Data General CPU's.

SECTION A:	DATA GENERAL	PROCESSORS		
CPU	Bus		_SYSIEMS*_&_DBIYE Tape: 6021/MTX	BS 6125/MTA
NOVA 4	DCH	RDOS	RDOS	N/ A
S/120	DCH	RDOS & AOS	RDOS	AOS
S/140	DCH	RDOS & AOS	RDOS	AOS
S/280	DCH	RDOS & AOS	RDOS	AOS
**********	Operating Syst	ems = RDOS (6.0 to 7.	5) and AOS (6.0 to	o 7.5)

** Disk Drivers = 6060, 6061, 6067, 6160, 6161, 6122, 6214

ZDF-1 FEATURES SUMMARY:

- * Requires an "I/O ONLY" slot in the chassis.
- * Both FCC & Non-FCC cabling styles are off the backplane.
- DISK: * Supports Data Transfer Rates & Formats: 1.2 MB/sec (10 Mhz) = ZETA 1 and compatibles 1.8 to 2 MB/sec (16 Mhz) = ZETA 3
- TAPE: * Supports Data Transfer Rates up to 1 MB/sec.
 - * Supports tri-density tape drives when density selection is made from the tape drive.

Sections B and C (Verified Drives) are on reverse side.

A Subsidiary of the Carlisle Corporation

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		ED DISK DRIV				
Disk Driv Model	•	Xfer Rate MB/sec	Unformatted Capacity	RDOS Delow	TED CAPACITY RDOS, Rev 7.0 & above	AOS & AOS/VS
Century (Data AMS 5	71 2.0	615	267/267	53 4	1 90 / 1 90
CDC 9710	RSD	1.2	82	67	73	73
CDC 9715-	-160 FSD	1.2	165	134	1 47	1 47
CDC 9715-	-340 FSD	1.2	344	279	305	277
CDC 9715-	-500 FSD	1.8	516	227/227	454	277 or 190/190
CDC 9720	EMD – I	1.8	368	1 49/ 1 49	324	277
CDC 9720	EMD-111	1.8	738	3 20 / 3 20	6 40	277/277 or 602**
CDC 9771	XMD-I	1.8	825	268/268	360/360 27	7/277/73 or 602**
Fujitsu 2	2351 Eagle	1.9	475	207/207	207/207	277 or 190/190
Fujitsu (2333*	2.5	337	134/134	1 47/ 1 47	277 or 147/147
Fujitsu 2	23 4 4 *	2.5	6 90	276/27 6	602 or 301/301	
Fujitsu (2361 Eagle	XP* 2.5	6 90	27 5/ 2 7 5	602 or 301/301	
	driv limi ** AOS/	es on the Da tations will VS ONLY	ta Čhannel ((likely resu	terfacing these DCH), because p It (depending o	erformance n the CPU.)	
SECTION	C: OTHER	DISK DRIVES	5			
Zeta	co's labs	and verified	l as operation	have NOT been to nal with Zetaco ur Customer base	controllers,	
Amcodyne	8160 7110	Fujitsu M22 M22 M22	84 (D2246 Pertec D2247 D2257	199 Toshit 265 332	oa 182 184 186
Ampex	165 330	M2 2 M2 3 M2 3	98	D 23 52 D 226 8 H D 23 6 2	<i></i>	
Century Data	T3 06 AMS 315 AMS 513 C 2075 T8 2	Kennedy 538 531 734 738	160 thern 1 10 Telcom 1	8204 Priama 82087 82107	3 450 7 050 803 80 4 806 807	
CDE	9762 9766 9775 9457	Mega-26 vauit 80 13 18 21) 3 2 36	85 160 165 200 300	808 3350 6650 15450	

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ZETACO ZDF-1 DUAL FUNCTION DISK/TAPE CONTROLLER

Problem: Booting RDOS rev. 7.5 Build Tape

Solution: Replace EPROM on Tape side of controller

- 1. Locate the ZDF-1 controller in the computer chassis. Remove the controller board, noting the chassis slot number it occupies, and lay on a flat surface. Remove board cover by taking out four corner screws.
- 2. At location B5, the EPROM 2732/A is to be replaced with the new component 2732/A.
- 3. The components have been socketed for easy removal and insertion. Note the direction of the notch in the original component. Insert a small screwdriver <u>between</u> the component and socket, and gently lift the component up and out.
- 4. Remove the new component from its container. The component has a notch on one edge. Orient the notch in the same direction as the original component, which is towards the handle edge.
- 5. Insert the new component in its proper socket, making sure that the pins line up with the socket holes (the pins can become bent otherwise). Apply slight pressure until the component is properly seated, making sure that pins do not bend during insertion. Inspect for bent or out-of-socket pins. Reattach the board cover using the four screws.
- 6. Re-insert the controller into the proper chassis slot and apply slight pressure on the plastic handles until it is fully seated. Apply power you are ready for re-use.