

# Microtan TANDOS-R Manual

## Appendix B - HxC Option



### Component List

Slim HxC FDD Emulator	
Berg Power socket housings	(2 off)
Berg socket crimp terminals	(8 off)
Power supply wires	(4 off)
2x17 way IDC socket connectors	(2 off)
34 way ribbon data cable	
M3 20mm Pan head bolts/washers/nuts	(4 off)
M3 15mm spacers	(4 off)

Note: Berg connectors and terminals are manufactured by AMP-TE Connectivity. Two cables need to be made up prior to installation of the HxC FDD emulator onto the TANDOS-R PCB.

The power cable consists of 4 wires connecting 2 Berg sockets using 8 crimp terminals. Each wire needs to connect the same Berg socket pin numbers together, (the cables will therefore have a twist when the power cable is laid out straight). The visible wire length between the 2 Berg sockets should be 50mm. When preparing these, allow extra length for the wire hidden inside the socket housings.

The Floppy Disk cable is made up by clamping two 34 way IDC sockets on the ends of 34 way ribbon cable. The connectors often have a triangle indicating pin 1. These should be orientated so that they align with Pin 1 signal line of the ribbon cable which is usually coloured red. When laid out flat, one connector should be located above the cable, the other below the cable. The two parts

of the connectors should be clamped around the cable using a vice so that even pressure is applied across the length of the connector. The visible cable length between the 2 IDC connectors should be 125mm. When cutting the cable to length, allow extra length for the cable hidden inside the 2 connectors.

## Installation

Connect the data cable to both the HxC emulator and the IDC plug on the front edge of the TANDOS-R board. Fix the Emulator to the PCB using the 4 bolts, spacers, washers and nuts with the data cable sandwiched between the emulator and the PCB. Connect the power cable to the two Berg connectors on the HxC Emulator and the TANDOS-R board.

Configure the two HxC drives by setting the HxC switches as follows:

ID0A (SW1) = ON (HxC drive A = TANDOS DRV 0: and 1:)

ID1B (SW6) = ON (HxC drive B = TANDOS DRV 2: and 3:)

All other switches = OFF

Insert the TANDOS-R board into a spare slot in the system rack.

## Preparing the SD Card

Using a PC/Laptop, format (FAT32) the SD Card.

Download the following zip file: [HXCSD.zip](#)

Unzip this file and transfer the files to the SD Card. These are:

DSKA0000.HFE (First image set – DRV0 and DRV1)

DSKB0000.HFE (First image set – DRV2 and DRV3)

HXCSDFE.CFG (Configuration file)

If further images are required, copy the two image files and rename them sequentially ie DSKA0001.HFE, DSKB0001.HFE etc. When these images are selected using the emulator, DRV0 contains the TANDOS master files, DRV1, DRV2 & DRV3 are blank.

## Using the Slim HxC Emulator

Insert the SD Card into the Emulator. After powering up the Mic

rotan, the emulator will beep indicating the last image set used. The default is the first image set (one beep). Two beeps indicates the second image set is selected etc. By pushing the selection button on the front edge of the emulator, the next image set is selected. The emulator will behave the same as if two real double-sided floppy disk drives have been connected.

If using the emulator as the first two drives and other drives are fitted, it is recommended to update the Disk Definition on each DRV0 on each image set using the [SYS](#) command.