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PCOPD - Opus Discovery utility

PC sends OPD disk image to Opus Discovery via Spectrum serial port at 57600 bps.

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download here: <https://www.emagsoftware.it/spectrum/pcopd.zip>

Spectrum side

- PCOPD: Basic loader

- PCOPDC: Code block

PC side

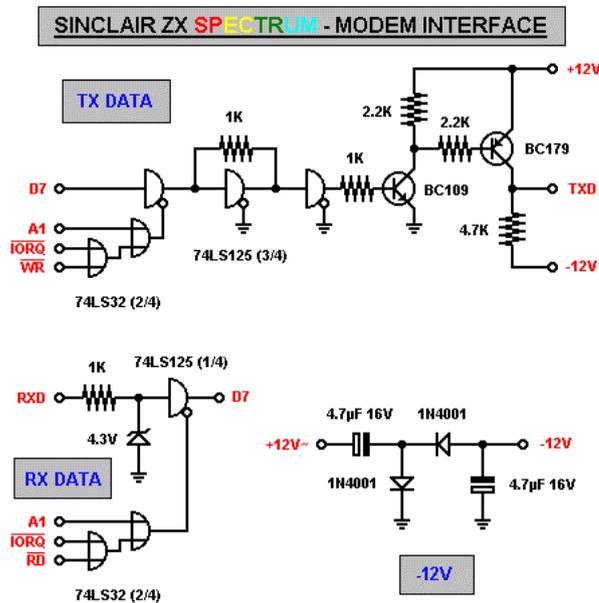
- PCOPD.EXE: it sends OPD image

1. Connect Spectrum serial port to PC serial port through a three-wire null-modem cable. The jumpers on the PC end of the cable need to be set so that the handshaking always results in an OK signal.
2. Transfer PCOPD & PCOPDC to disk.
3. Run PCOPD.EXE on PC.
4. Run PCOPD on Spectrum.
5. Insert a disk formatted according to OPD image into Opus Discovery disk drive.

PCOPD utility was created by Enrico Maria Giordano, an Italian programmer  
(EMG Software, 2018)

## NOTE

- A. PCOPD is provided in two TAP versions, one for Spectrum 128/+2 serial port and the other for serial port built for Spectrum 48/+ according to the following diagram:



- B. PCOPD works with Opus disks formatted with 256 bytes/sector and 18 sectors/track, both single-sided (SS) and double-sided (DS), single density (SD) and double density (DD). PCOPD reads, writes and transfers one track at a time (about 3.5 seconds/track). PCOPD works with Opus Discovery drives 1 and 2.

SS SD Opus disk (standard): 178K, 1 side, 40 tracks/side, 18 sectors/track, 256 bytes/sector, catalogue 7 sectors = 110 files (1.75K), 1 boot sector (0.25K) is transferred from PC in 2 minutes and 21 seconds.

DS DD Opus disk: 718K, 2 side, 80 tracks/side, 18 sectors/track, 256 bytes/sector, catalogue 7 sectors = 110 files (1.75K), 1 boot sector (0.25K) is transferred from PC in 9 minutes and 30 seconds.

QuickDOS disks formatted by Opus Discovery QuickDOS ROM 2.31 (by Victor Vogelpoel) are transferred from PC a little slower (about 4.6 seconds/track): SS SD = 3 minutes and 6 seconds, DS DD = 12 minutes and 30 seconds.

- C. If PC does not have a serial port, a serial-USB converter can be used.
- D. PCOPD also works using PC emulated on Mac and serial-USB converter.