



# AIQIA Technology Corp.

## DC-02A/X application note

DC-02A and DC-02X were designated to take use of printer port for POST80 message display. Additionally, by help of AIQIA proprietary testing program, users enabled to check printer port functionality, to do burn-in test, and to analysis system **MTBF** (Mean-Time-Before-Failure).



Delivery package included of one power cable to source +5V from USB port.

Below shows the command syntax to accomplish certain applications with AIQIA proprietary program DC02PRN.EXE in MS-DOS environment. Following examples assumed printer port starting address 0x378. The port address shall be changed in coincidence with hardware setting.

### **To check printer port signals connection:**

SYNTAX: DC02PRN 378

- .. Verify specify printer-port-address if available, otherwise stop running further check.
- .. Checking signal tracks if open or short, and come out report as soon as an error encountered in data path D0-D7, control signals STROBE, AUTOFEED, INIT, SELECT-IN, and status inputs ERROR, ACK, BUSY, PAPER-EMPTY or SELECT.

### **To do burn-in test:**

SYNTAX: DC02PRN 378 /B

- .. Verify DC-02A if available, otherwise stop running further check.
- .. Update LED content per execution.

### **To do MTBF analysis:**

SYNTAX: DC02PRN 378 /B /S

- .. Verify DC-02A if available, otherwise stop running further check.
- .. Run endless loop as long as system alive, update LED content per second.
- .. Store time elapsed onto DC02PRN.LOG.

### **To check 7-segment display:**

SYNTAX: DC02PRN 378 /D

- .. Verify DC-02A if available, otherwise stop running further check.
- .. Output data pattern onto 7-segment LED, looking into LED display.

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