

DT51 Software Feature

DT51D Debugger Software adalah feature terbaru dari DT51 MinSys Rev 3.0, dimana tool ini mempermudah dan menghemat waktu para designer untuk membangun sistem yang kompleks maupun sederhana.

The screenshot displays the DT51D Debugger interface with several panels:

- 89C51 CODE:** Shows assembly instructions like LJMPL, AJMPL, NOP, etc., with addresses and hex values.
- 89C51 REGISTER:** Lists registers such as P0, SP, DPL, DPH, PCON, TCON, TMOD, TL0, TL1, TH0, TH1, P1, SCON, SBUF, P2, IE, P3, IP, PSW, A, B, R0, R1, R2, R3, R4, R5, R6, R7.
- 89C51 FLAG:** Shows flag bits like CY, AC, FO, RS0, RS1, OV, P, GF1, GF0, TF1, TF0, IE1, IE0, TB8, RB8, TI, RI.
- MEMORY:** Displays a memory dump with addresses and hex values.
- WATCHES:** Shows watch points like 0000:41 and 5000:00.
- HELP:** Provides keyboard shortcuts for menu navigation.

Dengan fasilitas Free Run, StepOver, Trace Into, Memory Monitor, Watches, On-line help, Bahkan dapat mendebug program dalam kondisi interrupt.

Tampilan DT51D sangat user friendly dan berorientasi window.

This screenshot shows the Help menu and configuration options:

- DT51D Help Contents:** A menu with options like Open & Download, DOS shell, and Show-setting.
- Open & Download(F3):** A dialog box for downloading files, including fields for filename, port, baudrate, and fast download.
- DOS shell:** A terminal window for running DOS commands.
- STATUS:** A status window showing current settings like filename (TESPORT.HEX) and port (COM2).

Help yang sangat jelas dan membantu

Setting konfigurasi yang mudah

The screenshot shows the DT51 Downloader configuration screen:

- DT51 Downloader Version 3.0**
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- DataFormat :** 8 data-bits, None Parity, 1 stop-bit
- COMPORT[2]** BAUDRATE : 9600
- HEXFILE :** tesport.hex
- Board can not be initialized (failed : 262_ times).**
- Do the following :**
 1. Check serial cable connection
 2. Make sure the 9VAC transformer is plugged in at both ends
If power is getting to the board, the 7805 regulator will be warm
 3. Make sure the memory type is right, do selftest to get memory type
- Press X or x exit to system**

Salah satu kekuatan dari DT51 MinSys sejak awal adalah **D**T51L Loader Software, pada Rev 3.0 ini telah mengalami perbaikan dan penambahan kemampuan, sehingga bersama dengan DT51D Debugger Software memanjakan para designer.