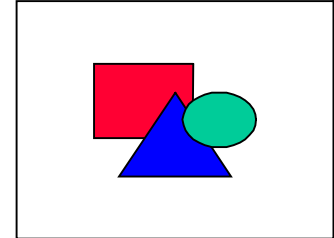# PC8800 Standard Edition for DOS
from Mirador Software, Inc.

PC8800 Standard Edition for DOS emulates ISC 8001 terminals with standard V5.79 firmware and Intecolor 8800 and 3800 Series terminals with standard V1.x and V2.x firmware. It also emulates the Aydin 5219 terminal equipped with Aydin's Geminay firmware.

This version of PC8800 is a 32-bit protected mode DOS application that uses a DPMI server to access all available memory resorces of the hosting PC (the freely available server by Charles W. Sandman is included in the distribution). The DOS version of PC8800 has minimal operating system and hardware requirements, making it well suited for installation on older PC hardware or on a small PC board embedded in a display enclosure. This version is recommended to all user's who want to dedicate a PC to providing Intecolor emulation in a mission-critical system. A dedicated PC running DOS can be configured to start the DOS emulator automatically at boot; in addition, such a PC is not subject to security risks associated with networked Windows machines that might be running other applications.

Features

- Support for host communications via RS-232 port
    - Baud rates to 38,400
    - Seven-bit or eight-bit character codes
    - Selectable parity and stop bits
    - Three echo modes
    - Selectable hardware or software (^S/^Q or ^F/^G) handshaking
    - Data analysis (Line Monitor) mode
- 80 column x 48 line text display rendered on monitor with 640x480 resolution
    - Each character is rendered in an 8x10 pixel matrix
    - Double high and blink attributes supported
    - Block, underscore and box cursors supported
    - Lower case, process, and forms character sets standard
    - Support for four custom character sets
- Standard PC keyboard keys mapped to 8001 keyboard keys
    - 101-key and 122-key PC keyboards (AT or PS/2) supported
    - All 8001/8800 keyboard functions supported
    - Multi-level programmable function keys (up to 40 characters per level per key)
- Full support for 8001G plot graphics (160x192 addressable pixels)
- Full support for 8001R dot addressable graphics (480x384 addressable pixels)
- Full support for protected fields

- Support for 8800 terminal extended command set (ANSI commands)
- Support for 4 text display pages and 4 graphics display pages
- Support for 8001 and 8800 V1 Fastscreen functions
  - Text mode screens can be saved in local memory for recall on host command
  - INI, DEV, SAV, LOA, DEL commands
  - Local storage devices RX0 and RX1 are implemented in RAMDISK or hard disk
- Support for locator devices following 8800 terminal locator system conventions
  - Arrow keys
  - Mouse at PS/2 port
  - Mouse or trackball at auxiliary serial port
  - IR touch screen at auxiliary serial port
- Support for expanded terminal bell using sound cards and embedded sound chips
  - Sound Blaster 1.0/1.5/2.0
  - Sound Blaster 16
  - Sound Blaster Pro
  - ESS AudioDrive
  - Ensoniq Soundscape
  - Windows Sound System
- Support for printers follows 8800 terminal print system conventions
  - Parallel or serial output supported
  - Print buffering is built in (no need for an external buffer box)
  - Support for any printer using HP PCL V3
- Setup Mode uses 8800 style menus
  - Host communications menu
  - Operator preferences menu
  - Printer menu
  - Keyboard menu
  - Locator menu

Hardware and O/S Minimum Requirements (DOS Version)

- 486 or better CPU
- 16MB RAM
- one serial port for host communications
- additional serial ports as required for locator device or serial printer
- parallel port (a software protection key is attached here, but does not prevent the port from being used for a printer)

- VESA 1 compliant video card

- floppy drive (needed for loading the software)

- hard drive (the emulator occupies only about 1MB, and an additional 2-15MB of space should be available for temporary files used for print spooling, etc.)

- AT Style keyboard

- MS DOS 3.0 or higher, FreeDos with kernel 2034 or higher, or DataLite ROMDOS (The emulator is a DOS application and can be run in full screen mode under Windows 3.1 or Windows 95/98. Currently, it will not run under Windows NT, Windows 2000, Windows XP or Unix operating systems.)

Intecolor Terminal Models
Replaceable by the Emulator Package

Basic 48 Line Terminal	48 Line Terminal with Character Graphics	48 Line Terminal with Dot Addressable Graphics	Package Style
B08001, B84819	B8001G	B8001R	20" Bench top (1st Generation)
E08001	E8001G	E8001R	20" Bench top (2nd Generation)
F08001	F8001G	F8001R	20" Bench top (3rd Generation)
	R08810	R08820	20" Bench top (4th Generation)
	R08814	R08824	20" Open Chassis (5th Generation)
	R08815	R08825	20" Desktop (5th Generation)
	R08816	R08826	20" Bench top (5th Generation)
	R08865	R08875	20" Rack mount (5th Generation)
	T03810	T03820	14" Desktop (4th Generation)
	T03815	T03825	14" Desktop (5th Generation)
	T03860		14" Rack mount (4th Generation)
	T03865	T03875	14" Rack mount (5th Generation)

Identification of 8800/3800 Terminal Options

Option	Description	Support in Emulation Package
0R/0T 0300	Over temperature Protection, 8800 SERIES	N/A
0R/0T 0700	20/60MA CURRENT LOOP	N/A (External converters are available.)
0R/0T 11A0	8800 SERIES 115VAC OPERATION	N/A
0R/0T 13A0	ADD. 1 PAGE SCREEN MEMORY 2PG	Standard
0R/0T 13B0	ADD. 3 PAGES SCREEN MEMORY 4PG	Standard
0R/0T 13C	ADD. 3 PG SCREEN MEM V2 LOGIC	Standard
0R/0T 13C0	ADD'L 3 CHAR/GRAPHICS PAGES V2	Standard
0R/0T 13CU	UPGRADE, ADD'L 3 CHAR PAGES V2	Standard
0R/0T 1700	64 CUSTOM CHARS	Character set editor utility and several custom character sets included
0R/0T 17C0	64 STD C CHARS	Standard
0R/0T 1900	OPT RACKMOUNT ENCLOSURE 19"	N/A
0R/0T 2200	V2/8800 MAIN LOGIC W/FW	N/A
0R/0T 22A0	V1/8800 MAIN LOGIC W/FW	N/A
0R/0T 22B0	V2/8800 2-SLOT BCKPLN OPT	N/A
0R/0T 22C0	V2/8800 2-SLOT BCKPLN NOP	N/A
0R/0T 2300	V2.2 F/W UPDATE V2/MAIN 38/88	Latest firmware is emulated.
0R/0T 23A0	V2.2 F/W UPDATE V1/MAIN 38/88	Latest firmware is emulated.
0R/0T 23B0	V2.0 F/W UPDATE V1/MAIN 38/88	Latest firmware is emulated.
0R/0T 2400	KEYBOARD 101 TO 117 INCREMENT	All keyboards emulated with PC keyboard
0R/0T 24B0	KEYBOARD 101 TO 72 DECREMENT	All keyboards emulated with PC keyboard
0R/0T 24D0	DELETE KEYBOARD (8800)	N/A
0R/0T 24E0	KEYBOARD OPT, BUS/VT100 STYLE	N/A
0R/0T 24F0	KEYBOARD MEMBRANE OVERLAY 117	N/A
0R/0T 24G0	KEYBOARD MEMBRANE OVERLAY 101	N/A
0R/0T 24H0	MEMBRANE KEYBD COVER, 113 KEY	N/A
0R/0T 25T0	TRACKBALL, LYNX 200EX 110V	Supported with internal driver (trackball not included)
0R/0T 26A0	FASTSCREEN, .5 MB FOR 8810/20	Standard
0R/0T 26B0	FASTSCREEN, 1 MB FOR 8810/8820	Standard
0R/0T 26D0	FASTSCREEN, 2 MB FOR 8810/8820	Standard
0R/0T 26F0	V2 FASTSCREEN ASSY, 0.5MB VOL	N/A
0R/0T 26G0	V2 FASTSCREEN ASSY, 1.0MB VOL	N/A
0R/0T 26H0	V2 FASTSCREEN ASSY, 2.0MB VOL	N/A
0R/0T 26I0	V2 FASTSCREEN ASSY, 4.0MB VOL	N/A
0R/0T 26L0	V2 FASTSCREEN ASSY, 448KB NVOL	N/A
0R/0T 26M0	V2 FASTSCREEN ASSY, 1.0MB NVOL	N/A
0R/0T 26N0	V2 FASTSCREEN ASSY, 1.8MB NVOL	N/A
0R/0T 2800	LIGHT PEN FOR 8800 SERIES	N/A
0R/0T 28A0	LIGHT PEN, 88X5 SERIES	N/A
0R/0T 28U0	UPGRADE, LIGHT PEN 8800 SERIES	N/A
0R/0T 2900	TOUCHSCREEN DRIVER,8800 SERIES	IR (EloTouch) Driver Standard
0R/0T 29B0	DRIVER/CABLES FOR CT TOUCHSCRN	N/A
0R/0T 29C0	TOUCHSCREEN (CARROLL), 8810/20	N/A
0R/0T 29D0	CARROLL TOUCHSCREEN 8815/25	N/A
0R/0T 29E0	CARROLL TOUCHSCREEN 3815/25	N/A
0R/0T 29G0	TCHSCN ELO RES-A/G 20"	Consult Mirador about driver support.
0R/0T 29H0	TCHSCN ELO SAW-A/G 20"	Consult Mirador about driver support.
0R/0T 30A0	CRT, 52% A/G 20"	N/A
0R/0T 3100	CHAR GRAPHICS EDITOR PACKAGE	N/A
0R/0T 3900	CUSTOM SOFTWARE, SEE CSR	Consult Mirador.
0R/0T 47A0	EASITREND FOR V1/MAIN LOGIC	N/A
0R/0T 50B0	MESH FILTER FOR 88X5	N/A
0R/0T 51A0	ADD TILT/SWIVEL BASE, 20" ERGO	N/A

0R/0T 51B0	INTEGRATED TILT/SWIVL FOR NEMA2	N/A
0R/0T 5400	DOOR W/LOCK 20" INDUSTRIAL	N/A
0R/0T 5400-180	SLIDES, RACK MOUNT, PAIR, 18"	N/A
0R/0T 5400-200	SLIDES, RACK MOUNT, PAIR, 20"	N/A
0R/0T 5400-220	SLIDES, RACK MOUNT, PAIR, 22"	N/A
0R/0T 5400-240	SLIDES, RACK MOUNT, PAIR, 24"	N/A
0R/0T 5400-260	SLIDES, RACK MOUNT, PAIR, 26"	N/A
0R/0T 5400-280	SLIDES, RACK MOUNT, PAIR, 28"	N/A
0R/0T 5400-300	SLIDES, RACK MOUNT, PAIR, 30"	N/A
0R/0T 5500	NEMA-2 CONTROL COVER	N/A
0R/0T 64G0	QRP9000 PRTR PKG,882X/7X,110V	N/A (Support for HP DeskJet printer standard)
0R/0T 64P0	PRINT SYSTEM PKG, V2/8800	Standard, Epson and HP printers supported
0R/0T 64V0-820	RGB OUTPUT ASSY FOR 8810/20	N/A
0R/0T 7100	ADD. 3 PAGES GRAPHICS MEM. 4PG	Four pages graphics is standard.
0R/0T 71U0	UPGRADE, 1 TO 4 PAGES GRAPHICS	Four pages graphics is standard.
0R/0T 76U0	UPGRADE, 8810 TO 8820 TERMINAL	Graphics is standard.
0R/0T 8300	YOKE MOUNT, NEMA-2	N/A
0R/0T 83A0	YOKE MOUNT, NEMA-4/12	N/A

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