



PPT 41xx Glossary of Terms

Advanced Power Management (APM)

APM consists of one or more layers of software that support power management in computers with power manageable hardware. It defines the hardware independent software interface between hardware-specific power management software and an operating system power management policy. The APM software interface specification defines a layered cooperative environment in which applications, operating systems, device drivers, and the APM BIOS work together to reduce power consumption, thereby extending the life of system batteries and increasing productivity and system availability.

Application Programming Interface (API)

An interface by means of which one software component communicates with or controls another. Usually used to refer to services provided by one software component to another, usually via software interrupts or function calls.

Application Specific Integrated Circuit (ASIC)

Sometimes referred to as a Gate Array. A special purpose silicon chip designed to satisfy a specific set of requirements.

BACK

Bus Acknowledge

BIOS

Basic Input Output System. A collection of ROM-based code with a standard API used to interface with standard PC hardware.

BREQ

Bus Request

CMSA/CD

Carrier Sense Multiple Access/Collision Detection

CRC	Cyclic Redundancy Check. A mathematical algorithm for checking the integrity of a data string.
CTS	Clear To Send –RS232/RS422 signal for a DB-25 DTE device, Pin # 5–indicates that the device is ready to exchange data
DBP	Digital Bar Patterns
DCD	Data Carrier Detect–RS232/RS422 signal for a DB-25 DTE device, Pin # 8–indicates that the data carrier has been detected by the device. DCD is often used as an indicator of whether or not the modem is connected to the remote end. If DCD goes low, it is assumed that the carrier signal from the remote modem and the data connection have been lost.
DISKCFG.EXE	Disk configuration utility for building ROM images.
DSR	Data Set Ready–RS232/RS422 signal for a DB-25 DTE device, Pin #6 –indicates that the device is ready to establish the communications link with the UART.
DTR	Data Terminal Ready –RS232/RS422 signal for a DB-25 DTE device, Pin # 20–indicates that the UART is ready to establish a communications link.
ECB	Event Control Block. A data structure that is used in the control of event processing.
Flash ROM	Non-volatile, erasable, writeable, low power, high density, solid state memory in a chip. It serves as ROM, RAM, and solid-state disk, but is smaller, denser, and uses less power than just about all of them. One popular application is to provide a BIOS that is not set in stone for systems that need to have the BIOS updated to accommodate processor upgrades, support newer graphics devices, power management features, fix bugs, improve operation, and support plug-in PCMCIA devices.

Handwriting Recognition System (HRS)	The TSR program developed by the Communication Intelligence Corporation (CIC) and provided by Symbol for PPT 41xx terminals to process a wide variety of handwritten characters drawn on the terminal screen.
HEX2TERM.EXE	PC utility used to transfer hex images from a PC, over a serial cable, to the PPT 4100 terminal. The hex image may be either a BIOS update or a ROM disk image.
ICE	In-Circuit Emulator. A device that plugs into hardware replacing the processor. It usually connects to the development system through a serial port or an Ethernet link. ICEs record and display the sequence of events and instructions executed on a target system.
IOCTL	Input/Output Control
IPL	Initial Program Loader. A utility for loading system software and user applications into the flash EEPROM. Its purpose is to download a BIOS or ROMDISK image from a PC or SRAM card to the PPT 41xx flash ROM.
IRQ	Interrupt Request
IRQ	Interrupt ReQuest—a process that a device, such as a video display, uses to notify the CPU that it needs the CPU's attention.
ISR	Interrupt Service Routine (also known as Interrupt Handler)—the programming code executed during the interrupt condition.
LCD	Liquid Crystal Display. The type of visual display used on the PPT 41xx terminal. A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to reflect light outside according to their bias. They use little electricity and react relatively quickly. They require external light to reflect their information to the user.

LED	Light Emitting Diode. A low power electronic light source commonly used as an indicator light. Uses less power than incandescent light bulb but more than a Liquid Crystal Display.
MCCU	Master Cradle Control Unit
NCIB	Network Configuration Information Block
NCU	Network Control Unit
NMI	Non-Maskable Interrupt –a pin on the CPU on which a device can send an interrupt signal to the CPU that cannot be ignored, used to signal the occurrence of a catastrophic event.
NOP	No Operation. An assembly language term used to identify a function that does nothing.
NVM	Non-Volatile Memory
PCMCIA	Personal Computer Memory Card Interface Association
PIIB	Protocol Parameter Information Block
PPT	Portable Pen Terminal
RFCB	Radio (RF) Control Block
RI	Ring Indicator –RS232/RS422 signal for a DB-25 DTE device, Pin # 22–asserted by the modem while it is receiving a ring signal on the line; it is used to detect and answer incoming calls.
RTS	Request To Send –RS232/RS422 signal for a DB-25 DTE device, Pin # 4–informs the device that the UART is ready to exchange data.
RXD	Received Data –RS232/RS422 signal for a DB-25 DTE device, Pin # 3–from device to UART.

Scanner Control Block (SCB)	A block of memory allocated in the DOS application memory area which is used to communicate command and status information between the application and the Scanner Driver.
SDK	Software Development Kit
SE-1000	Symbol's laser scan module that can be intrgrated into portable computing devices.
SHIP	Symbol Host Interface Program
SLP	Session Layer Protocol
SMC	Scan Module Card
SNAC	Symbol's New Acquisition Chip. An ASIC that provides the interface between a PC-compatible ISA bus and a Symbol internal or external laser or contact wand scanner.
SOS	Start Of Scan. An indication that the laser beam has changed direction.The signal is used to indicate the completion of the DBP acquisition process and to initiate the decode process.
SRAM SRAMFORM.EXE	Static Random Access Memory Utility which enables SRAM cards to be formatted on PPT 41xx terminals.
TSR	Terminate and Stay Resident. A program under DOS that ends its foreground execution to remain resident in memory to service hardware and/or software interrupts, providing background operation.It remains in memory and may provide services on behalf of other DOS programs.
TXD	Transmitted Data-RS232/RS422 signal for a DB-25 DTE device, Pin # 2-from UART to device.

TXE	Transmit Echo—used to determine whether the transmit data line is busy or whether a data transmission resulted in a collision. The sending terminal compares the data on TXE with what it send on TXD. If they do not match, it is assumed that a collision occurred which resulted in data corruption.
UART	Universal Asynchronous Receiver /Transmitter Chip
VBX	Visual Basic Extension
VXD	Virtual Device Driver
XSYMBIOS	Symbol Technologies' BIOS extensions