

Phoenix MultiKey Desktop Products

MultiKey Features	/42	/C42	/42G	/42E	/42i	/3880
MultiKey Product Target Processor	8242PC	82C42PC	82C42PE	SuperI/O	SuperI/O	M38802
Target Processor ROM Size (bytes)	2K	4K	4K	2K	2K	4K
Target Processor RAM Size (bytes)	256	256	256	256	256	384
Target Processor <i>Full IBM</i> Pinout	Yes	Yes	Yes	Yes	Yes	Yes
Latest MultiKey Revision	1.40	2.12	1.29	3.11	4.12	1.15
Standard AT, PS/2, AX, OADG, Microsoft Keyboard support	Yes	Yes	Yes	Yes	Yes	Yes
Standard PS/2 Style Mouse support	Yes	Yes	Yes	Yes	Yes	Yes
Keyboard Controller code capable of running at multiple speeds	Yes	Yes	Yes	Yes	-	Yes
Automatic Power Savings operation	-	-	-	-	-	Yes
Suspend Power Down for complete Power Management	-	-	Yes	-	-	Yes
Autodetection of legacy AT vs PS/2 Platform	Yes	Yes	Yes	-	-	-
AT vs PS/2 Keyboard Controller Command mode	Yes	Yes	Yes	Yes	-	Yes
Transparent Software GateA20 support	Yes	-	-	Yes	Yes	Yes
Hardware GateA20 support	-	Yes	Yes	-	-	-
Keyboard and Mouse PortSwapping support	-	Yes	Yes	Yes	Yes	Yes
Hot-Pluggability and Hot-PortSwapping support	-	-	-	-	-	Yes
RAM/ROM ScanCode Conversion table	-	Yes	Yes	Yes	Yes	-
Password and Keylock Security support	Yes	Yes	Yes	Yes	Yes	Yes
16-Byte or larger Password support	-	-	-	Yes	Yes	-
Dual Password (User & Supervisor) support	-	-	-	Yes	Yes	-
Password Enable/Disable Task support	-	-	Yes	Yes	Yes	-
Secure Password (cannot be read or overwritten)	-	-	-	-	Yes	-
Secure USB Password Validation support	-	-	-	-	Yes	-
Secure Configuration (cannot be changed once locked)	-	-	-	-	Yes	-
Programmable HotKey and Task support	-	-	Yes	Yes	Yes	Yes
External HotKeys Validation support (for USB)	-	-	-	-	Yes	-
Extended Pulsed HotKey support	-	-	-	-	-	Yes
Quicklock with rotating Flashing LEDs support	-	-	Yes	Yes	Yes	Yes
Watchdog or Delayed Event Timer	-	-	Yes	-	-	Yes
Inactivity Timer for Powering Down external Devices	-	-	Yes	-	Yes	-
Five separate Inactivity Timers	-	-	Yes	-	-	-
Inactivity Invoked Security support	-	-	Yes	-	Yes	-
Inactivity Indication (Flashing Scroll Lock LED)	-	-	Yes	-	Yes	-
Temporary Kbd/Aux Lockout Timer (<i>Eat-a-Key</i> Timer)	-	-	Yes	-	-	-
Lockout Indication (Flashing all LEDs)	-	-	Yes	-	-	-
External Input Detection & Task support	-	-	Yes	-	Yes	-
External Input Enable/Disable Security support	-	-	-	-	Yes	-
Edge and Level External Input Detection	-	-	Yes	-	-	-
Power Restored based on Mouse, Keyboard, & External Input	-	-	Yes	-	Yes	-
Port 1 "Input Port" Emulation	-	-	Yes	-	-	Yes
BIOS Configurable Interrupt Control	-	Yes	Yes	-	-	-
BIOS Downloadable Keyboard Controller Code	-	-	-	-	-	-
OEM MultiKey Configuration Utility	-	-	Yes	Yes	Yes	-

Phoenix MultiKey Desktop Products

MultiKey Features	/42	/NS42	/NS42	/NS42	/SMC42
MultiKey Product Target Processor	PC87911	PC87303	PC87323	PC87306	FDC37C935
Target Processor ROM Size (bytes)	2K	2K	2K	2K	2K
Target Processor RAM Size (bytes)	256	256	256	256	256
Target Processor <i>Full IBM</i> Pinout	Yes	Yes	Yes	-	-
Latest MultiKey Revision	1.40	1.40	1.40	1.40	1.40
Standard AT, PS/2, AX, OADG, Microsoft Keyboard support	Yes	Yes	Yes	Yes	Yes
Standard PS/2 Style Mouse support	Yes	Yes	Yes	Yes	Yes
Keyboard Controller code capable of running at multiple speeds	Yes	Yes	Yes	Yes	Yes
Automatic Power Savings operation	-	-	-	-	-
Suspend Power Down for complete Power Management	-	-	-	-	-
Autodetection of legacy AT vs PS/2 Platform	Yes	Yes	Yes	-	Yes
AT vs PS/2 Keyboard Controller Command mode	Yes	Yes	Yes	Yes	Yes
Transparent Software GateA20 support	Yes	Yes	Yes	Yes	Yes
Hardware GateA20 support	-	-	-	-	-
Keyboard and Mouse PortSwapping support	-	-	-	-	-
Hot-Pluggability and Hot-PortSwapping support	-	-	-	-	-
RAM/ROM ScanCode Conversion table	-	-	-	-	-
Password and Keylock Security support	Yes	Yes	Yes	Yes	Yes
16-Byte or larger Password support	-	-	-	-	-
Dual Password (User & Supervisor) support	-	-	-	-	-
Password Enable/Disable Task support	-	-	-	-	-
Secure Password (cannot be read or overwritten)	-	-	-	-	-
Secure USB Password Validation support	-	-	-	-	-
Secure Configuration (cannot be changed once locked)	-	-	-	-	-
Programmable HotKey and Task support	-	-	-	-	-
External HotKeys Validation support (for USB)	-	-	-	-	-
Extended Pulsed HotKey support	-	-	-	-	-
Quicklock with rotating Flashing LEDs support	-	-	-	-	-
Watchdog or Delayed Event Timer	-	-	-	-	-
Inactivity Timer for Powering Down external Devices	-	-	-	-	-
Five separate Inactivity Timers	-	-	-	-	-
Inactivity Invoked Security support	-	-	-	-	-
Inactivity Indication (Flashing Scroll Lock LED)	-	-	-	-	-
Temporary Kbd/Aux Lockout Timer (<i>Eat-a-Key</i> Timer)	-	-	-	-	-
Lockout Indication (Flashing all LEDs)	-	-	-	-	-
External Input Detection & Task support	-	-	-	-	-
External Input Enable/Disable Security support	-	-	-	-	-
Edge and Level External Input Detection	-	-	-	-	-
Power Restored based on Mouse, Keyboard, & External Input	-	-	-	-	-
Port 1 "Input Port" Emulation	-	-	-	-	-
BIOS Configurable Interrupt Control	-	-	-	-	-
BIOS Downloadable Keyboard Controller Code	-	-	Yes	-	-
OEM MultiKey Configuration Utility	-	-	-	-	-

Phoenix MultiKey Portable Products

MultiKey Features	/42L	/51L	/VL51L	/VL51L	/3880L	/3881L
MultiKey Product Target Processor	82C42PD	80C51SL	VL82C144	VL82C532	M38802	M38813
Target Processor ROM Size (bytes)	4K	16K	32K	32K	8K	16K
Target Processor RAM Size (bytes)	256	256	512	512	384	512
Number of Analog to Digital Channels	-	4	-	-	-	-
Number of Digital to Analog Channels	-	-	-	-	-	-
Latest MultiKey Revision	1.20	2.10	1.34	1.33	1.38	1.54
Standard AT, PS/2, AX, OADG, Microsoft Keyboard support	Yes	Yes	Yes	Yes	Yes	Yes
Standard PS/2 Style Mouse support	Yes	Yes	Yes	Yes	Yes	Yes
IBM PS/55 Numeric Keypad support	-	-	-	-	Yes	Yes
Keyboard Controller code capable of running at multiple speeds	Yes	Yes	Yes	Yes	Yes	Yes
Automatic Power Savings operation	-	Yes	Yes	Yes	Yes	Yes
Suspend Power Down for complete Power Management	Yes	Yes	-	-	Yes	Yes
AT vs PS/2 Keyboard Controller Command mode	Yes	Yes	Yes	Yes	Yes	Yes
Transparent Software GateA20 support	-	-	Yes	Yes	Yes	Yes
Hardware GateA20 support	Yes	Yes	-	-	-	-
Keyboard and Mouse PortSwapping support	Yes	Yes	Yes	Yes	Yes	Yes
Hot-Pluggability and Hot-PortSwapping support	-	Yes	Yes	Yes	Yes	Yes
Password and Keylock Security support	Yes	Yes	Yes	Yes	Yes	Yes
16-Byte or larger Password support	-	-	-	-	-	-
Dual Password (User & Supervisor) support	-	-	-	-	-	-
Password Enable/Disable Task support	-	-	-	-	-	-
Secure Password (cannot be read or overwritten)	-	-	-	-	-	-
Secure USB Password Validation support	-	-	-	-	-	-
Programmable HotKey and Task support	-	Yes	Yes	Yes	Yes	Yes
External HotKeys Validation support (for USB)	-	-	-	-	-	-
Extended Pulsed HotKey support	-	-	-	-	Yes	Yes
System Resume on HotKey or Any Keystroke support	-	Yes	Yes	Yes	Yes	Yes
Quicklock with rotating Flashing LEDs support	Yes	Yes	Yes	Yes	Yes	Yes
Watchdog or Delayed Event Timer	-	Yes	Yes	Yes	Yes	Yes
External Input Detection & Task support	-	-	-	-	-	-
Internal Keyboard ScanCode Controller support	Yes	Yes	Yes	Yes	Yes	Yes
Internal Windows 95 Key (L/R Windows & Application) support	-	-	Yes	Yes	Yes	Yes
Internal PS/2 Mouse Emulation support	-	Yes	Yes	Yes	-	-
Simultaneous Operation of Internal & External Keyboards	Yes	Yes	Yes	Yes	Yes	Yes
Simultaneous Operation of Internal & External Mice	-	Yes	-	-	Yes	Yes
Isolation of Extended ScanCode between multiple Keyboards	-	-	-	-	-	-
Three PS/2 Device support	-	-	Yes	Yes	Yes	Yes
Downloadable Internal Keyboard Matrix	Yes	Yes	Yes	Yes	Yes	Yes
Downloadable Scanner Timing Parameters	Yes	Yes	Yes	Yes	Yes	Yes
Downloadable Fn-Shifted Overlay Table	-	-	Yes	Yes	Yes	Yes
SMBus, Duracell, & Compatible Smart Battery support	-	-	-	Yes	-	Yes
Dallas 1-Wire Interface & Sony Intelligent Battery support	-	-	-	-	-	Yes
Benchmark Smart Battery support	-	-	-	-	-	-
Run Time Configurable Battery Interface	-	-	-	-	-	Yes
Flashable Keyboard Controller Code	-	-	Yes	Yes	-	-
Alternate Host Interface	-	-	Yes	Yes	-	-
Status ICON LCD support	-	-	-	-	-	-
Active Thermal Feedback	-	-	-	Yes	-	-
OEM MultiKey Configuration Utility	Yes	Yes	Yes	Yes	Yes	Yes

Phoenix MultiKey Portable Products

MultiKey Features	/H8L	/H33L	/H34L	/NS87L	/G11L
MultiKey Product Target Processor	H8/3332	H8/3334	H8/3434	PC87421	MC684C05G11
Target Processor ROM Size (bytes)	16K	32K	32K	56K	16K
Target Processor RAM Size (bytes)	512	512	1024	1024	512
Number of Analog to Digital Channels	8	8	8	8	8
Number of Digital to Analog Channels	-	-	2	4	4
Latest MultiKey Revision	1.43	1.00	2.04	1.10	1.11
Standard AT, PS/2, AX, OADG, Microsoft Keyboard support	Yes	Yes	Yes	Yes	Yes
Standard PS/2 Style Mouse support	Yes	Yes	Yes	Yes	Yes
IBM PS/55 Numeric Keypad support	-	-	-	-	-
Keyboard Controller code capable of running at multiple speeds	Yes	Yes	Yes	Yes	Yes
Automatic Power Savings operation	Yes	Yes	Yes	Yes	Yes
Suspend Power Down for complete Power Management	Yes	Yes	Yes	Yes	Yes
AT vs PS/2 Keyboard Controller Command mode	Yes	Yes	Yes	-	Yes
Transparent Software GateA20 support	Yes	Yes	-	Yes	Yes
Hardware GateA20 support	-	-	Yes	-	-
Keyboard and Mouse PortSwapping support	Yes	Yes	Yes	Yes	Yes
Hot-Pluggability and Hot-PortSwapping support	Yes	Yes	Yes	Yes	Yes
Password and Keylock Security support	Yes	Yes	Yes	Yes	Yes
16-Byte or larger Password support	-	-	-	-	-
Dual Password (User & Supervisor) support	-	-	-	-	-
Password Enable/Disable Task support	-	-	-	-	-
Secure Password (cannot be read or overwritten)	-	-	-	-	-
Secure USB Password Validation support	-	-	-	-	-
Programmable HotKey and Task support	Yes	Yes	Yes	Yes	Yes
External HotKeys Validation support (for USB)	-	-	-	-	-
Extended Pulsed HotKey support	-	-	-	-	-
System Resume on HotKey or Any Keystroke support	Yes	Yes	Yes	Yes	Yes
Quicklock with rotating Flashing LEDs support	Yes	Yes	Yes	Yes	Yes
Watchdog or Delayed Event Timer	Yes	Yes	Yes	Yes	Yes
External Input Detection & Task support	-	-	-	-	-
Internal Keyboard ScanCode Controller support	Yes	Yes	Yes	Yes	Yes
Internal Windows 95 Key (L/R Windows & Application) support	-	Yes	Yes	Yes	Yes
Internal PS/2 Mouse Emulation support	Yes	Yes	Yes	Yes	Yes
Simultaneous Operation of Internal & External Keyboards	Yes	Yes	Yes	Yes	Yes
Simultaneous Operation of Internal & External Mice	Yes	Yes	Yes	Yes	Yes
Isolation of Extended ScanCode between multiple Keyboards	-	-	-	Yes	-
Three PS/2 Device support	-	Yes	Yes	Yes	Yes
Downloadable Internal Keyboard Matrix	Yes	Yes	Yes	Yes	Yes
Downloadable Scanner Timing Parameters	Yes	Yes	Yes	Yes	Yes
Downloadable Fn-Shifted Overlay Table	-	Yes	Yes	Yes	Yes
SMBus, Duracell, & Compatible Smart Battery support	-	-	Yes	-	-
Dallas 1-Wire Interface & Sony Intelligent Battery support	Yes	-	-	-	-
Benchmark Smart Battery support	Yes	-	-	-	-
Run Time Configurable Battery Interface	-	-	-	-	-
Flashable Keyboard Controller Code	-	-	-	-	-
Alternate Host Interface	-	Yes	Yes	-	-
Status ICON LCD support	Yes	Yes	Yes	-	-
Active Thermal Feedback	-	-	-	-	-
OEM MultiKey Configuration Utility	Yes	Yes	Yes	Yes	Yes