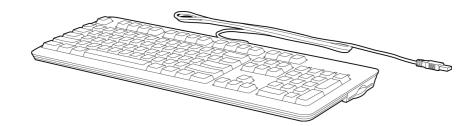# QuickSpecs

Overview

Models

HP USB Smart Card CCID Keyboard	E6D77AA

Introduction

Add an extra layer of security at the point of data entry with the HP USB SmartCard CCID Keyboard, which includes an integrated smart card reader to help simplify access procedures and prevent unauthorized access to your PCs and networks.

Key Benefits

- Combine with a smart card and HP Client Security1 to create a secure and convenient way to login.
- Enjoy enhanced security features vs. previous-generation technology with an integrated smart card reader that's compatible with Class A, B, and C smart cards to help prevent hacking and firmware changes in the keyboard.
- Get a sleek, full keyboard that matches the latest HP Business PCs and is constructed with high-impact materials to withstand daily business use.
- Lubricated keys help keep your work environment quiet. The spill drain feature makes the keyboard easy to clean when minor accidents happen.
- Connect to any USB port on your PC, and you're ready to go. The included 6 ft (1.8 m) USB cable gives you plenty of room to move the keyboard around your workspace.

Compatibility

The HP USB Smart Card CCID Keyboard is compatible with the following models:

HP ProDesk 600 G1 Tower, HP Pro Desk 600 G1 Small Form Factor, HP ProOne 600 G1 All-in-One, HP EliteDesk 800 G1 Tower, HP EliteDesk 800 G1 Small Form Factor, HP EliteDesk 800 G1 Ultra-slim, HP EliteOne 800 G1 All-in-One, Compaq 100B Small Form Factor, HP Compaq 4000 Pro Small Form Factor, HP Compaq 6000 Pro All-in-One, HP Compaq 6000 Pro Microtower, HP Compaq 6000 Pro Small Form Factor, HP Compaq 6005 Pro Microtower, HP Compaq 6005 Pro Small Form Factor, HP Compaq 6005 Pro Ultra-slim Desktop, HP Compaq 6200 Pro Microtower, HP Compaq 6200 Pro Small Form Factor, HP Compaq 8200 Elite All-in-One, HP Compaq 8200 Elite Convertible Minitower, HP Compaq 8200 Elite Small Form Factor, HP Compaq 8200 Elite Ultra-slim, HP Compaq Elite 8300 All-in-One Desktop, HP Compaq Elite 8300 All-in-One, HP Compaq Pro 4300 All-in-One, HP Compaq Pro 6300 All-in-One, HP Compaq Pro 6305 Microtower, HP Compaq Pro 6305 Small Form Factor, HP Pro 3000 Small Form Factor, HP Pro 3005 Microtower, HP Pro 3130 Minitower, HP TouchSmart Elite 7320 All-in-One.

NOTE: Not all models are available in all regions.

NOTE: Please check this product's web page on HP.com for current compatibility information.

Overview

Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

QuickSpecs

Technical Specifications

Physical characteristics	**Keys**	104, 105, 106, 107, 109 layout (depending upon country
	Form factor	USB basic Smart Card keyboard
	Colors	Jack Black/Silver
	Dimensions (H x W x D)	18.2 x 6.3 x 1.3 in (46.03 x 16.43 x 3.19 cm
	Weight	2 lb (0.9 kg) minimum
Electrical	**Operating voltage**	+ 5VDC ± 5%
	Power consumption	200-mA maximum (with four LEDs ON)
	System interface	USB Type A plug connector
	ESD	CE level 4, 15-kV air discharge
	EMI - RFI	Conforms to FCC rules for a Class B computing device
	Microsoft PC 99 - 2001	Functionally compliant
Mechanical	**Languages**	30+ available
	Keycaps	Standard design
	Switch actuation	55 g nominal peak force with tactile feedback
	Switch life	20 million keystrokes (using Hasco modified tester)
	Switch type	Contamination-resistant membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
	Microsoft PC 99 - 2001	Mechanically compliant
	Acoustics	43-dBA maximum sound pressure level
Environmental	**Operating temperature**	50° to 122° F (10° to 50° C)
	Non-operating temperature	-22° to 140° F (-30° to 60° C)
	Operating humidity	10% to 90% (non-condensing at ambient)
	Non-operating humidity	20% to 80% (non-condensing at ambient)
	Operating shock	40 g, six surfaces
	Non-operating shock	80 g, six surfaces
	Operating vibration	2-g peak acceleration
	Non-operating vibration	4-g peak acceleration
	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
	Drop (in box)	30 in (76.2 cm) on concrete, 16-drop sequence
SMARTCARD function	**Support**	All ISO 7816 smart cards
	Interface	Reads from and writes to all ISO7816-1, 2, 3, 4 memory and microprocessor smart cards (T=0, T=1)
	Chipset	CLOUD2190F
	Standard APIs supported	PC/SC, EMV2000, CT-API

Technical Specifications

Power	USB Port	
	Short circuit detection (protects smart card and reader)	
	Power supply compliant with ISO7816 and EMV (5V, 60 mA)	
	Supports 1.8-V, 3-V and 5-V cards	
Power consumption	100-mA maximum draw	
Communication	From card	9600 bps to 330,000 bps
	From computer	12 Mbps (USB transfer speed)
Landing mechanism	Contact device	Friction contact
	Card insertions rating	Up to 100,000 insertion cycles
Interface modes	CCID protocol	
	IDENTIVE proprietary extensions	
Reader performance interface	USB connection	
Electro-magnetic standards	Europe	2004/108/EC
	USA	USAFCC part 15

Operating system support Windows 8, Windows 8 Pro, Windows 7 Home Basic*, Windows 7 Home Premium*, Windows 7 Professional Edition 32*, Windows 7 Professional Edition 64*, Windows 7 Ultimate Edition 32*, Windows 7 Ultimate Edition 64*, Windows Vista Business 64**, Windows Vista Business 32**, Windows Vista Home Basic 32**

* This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

** Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: http://www.windowsvista.com/upgradeadvisor. For Windows Vista system requirements, visit: http://www.windowsvista.com/systemrequirements.

Approvals	CE-Mark, UL, cUL, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, KCC, EMV2000, USB-IF
Ergonomic compliance	ISO 9241-410, TUV GS
Kit contents	Keyboard and USB cable, I/O Security and Documentation CD, warranty card

Smart card compatibility	**HP**	HP ProtectTools Smart Card
	American Express	Amex Blue
	Axalto (Schlumberger)	Cryptoflex 8K
		Cryptoflex 16K
		Cryptoflex 32K
		Cryptoflex 32K e-gate
		Cyberflex Access 64K
		Cyberflex Access 32K
		Cyberflex 32K e-gate
		Cyberflex 64K
		Cyberflex Palmera
		Payflex-S
		Payflex 1K
		Payflex 2K
		Payflex 4K

Technical Specifications

	Payflex 8K
	Prismera
	US DoD CAC
Cardlogix	CLXSU004KK4
	CLXSU008KK5
Safenet, Inc.	Model 300
	Model 330
De La Rue	VisaCash
Gemplus	Gem Expresso
	GKK32K
	Gemclub Memo
	GemClub Micro
	GemXplore
	GemSafe
Infineon	SLE66C322P
SafLink (Litronic)	Forte
Sharp	Java Card
Oberthur	CosmopollIC v4
	CosmopollIC v4.1
	Cosmo ID-One
	GalatIIC v2.1
	US DoD CAC
Memory Cards	
Atmel	AT24C01ASC
	AT24C02SC
	AT24C04SC
	AT24C08SC
	AT24C16SC
	AT24C32SC
	AT24C64SC
	AT24C128SC
	AT24C256SC
	AT24C512SC
	AT88SC153
	AT88SC1608
Axalto (Schlumberger)	PrimeFlex Store 8K
	PrimeFlex Store 2K
Infineon	SLE4406
	SLE4406E
	SLE4406E SE
	SLE4418
	SLE4428
	SLE4432
	SLE4436E
	SLE4442
	SLE5536

Technical Specifications

ISSI	IS23SC4418
	IS23SC4428
ST	14C02
Telefonkarte	SLE4406
	SLE4436
	SLE5536
XICOR	X24026