

### Technical Specifications

## HP USB Business Slim Smartcard Keyboard

### Models

HP USB Business Slim Smartcard Keyboard

Z9H48AA

### Compatibility

The HP USB Business Slim Smartcard Keyboard is compatible with HP ProDesk 400 G4 SFF, HP ProDesk 400 G4 MT, HP ProOne 400 G3 AIO Touch, HP ProOne 400 G3 AIO Non-Touch, HP ProDesk 600 G3 MT, HP ProDesk 400 G3 DM, HP ProDesk 600 G3 SFF, HP ProDesk 600 G3 Desktop Mini, HP ProOne 600 G3 AIO 21.5" Non-Touch, HP EliteDesk 800 G3 TWR., HP EliteDesk 800 G3 SFF, HP EliteDesk 800 G3 35W Desktop Mini, and HP EliteDesk 800 G3 65W Desktop Mini.

**NOTE:** Not all models are available in all regions.

### 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.

<b>Physical Characteristics</b>	Keys	104, 105, 109 layout (depending upon country)
	Dimensions (H x W x D)	17.34 x 5.68 x 0.78 in (440.6 x 14.45 x 1.98 cm)
	Weight	1.32 lb (0.6± 0.1 kg)
<b>Electrical</b>	Operating voltage	5V
	Power consumption	200 mA
	System interface	USB Interface
	ESD	Air 12.5kV / Contact 8kV
	EMI - RFI	under 3dB
<b>Mechanical</b>	Microsoft PC 99 - 2001	Conforms to FCC rules for a Class B computing device
	Keycaps	Low-profile design
	Switch actuation	60±15g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
<b>Environmental</b>	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft (1.8 m)
	Acoustics	43-dBA maximum sound pressure level
	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	

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	Drop (in box)	30 in (76.2 cm) on concrete, 16-drop sequence	
<b>SmartCard Function</b>	Support Interface	All ISO 7816 smart cards Reads from and writes to all ISO7816-1, 2, 3, 4 memory and microprocessor smart cards (T=0, T=1)	
	Chipset	IDENTIVE CLOUD 2190 F	
	Standard APIs supported	PC/SC, EMV2000, CT-API	
	Power	USB Port Short circuit detection (protects smart card and reader) Power supply compliant with ISO7816 and EMV (5V, 60 mA) Supports 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	
Reader performance interface	USB connection		
Electro-magnetic standards	Europe	2004/108/EC	
	USA	USAFCC part 15	
<b>Approvals</b>	CE Marking; TUV; EAC; FCC; cULus/CSAus; ICES; RCM; VCCI; KCC; BSMI		
<b>Ergonomic Compliance</b>	ISO 9241-410, TUV GS		
<b>Kit Contents</b>	Keyboard, I/O Security and Documentation CD, warranty card		

**\*NOTE:** The functional keys for brightness adjustment are only available with notebook and Integrated displays with HP hot key support software.

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<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
August 15, 2019	From V1 to v2	Update	NOTE added to specs