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You can read the recommendations in the user guide, the technical guide or the installation guide for KINGSTON KUSBDTE. You'll find the answers to all your questions on the KINGSTON KUSBDTE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Kingston Technology KUSBDTE/xx USB Flash Storage Devices

1. Introduction

This product description of the DataTraveler Elite unit is provided by Kingston Technology, and is applicable for Kingston's USB Flash Drive products based on SLC NAND flash.

1.1. Product Outline

The DataTraveler Elite operates as a removable disk without driver installation via a standard USB port. It is compatible with the following Windows Operating Systems:

Windows 2000 and Windows XP

Mac OS: 9.1 and above (some versions may not be supported due to possible Mac OS issues)

2. Part Numbers

Table 1: Available DataTraveler Elite Products / Part Numbers

Part Number	Description
KUSBDTE/256	T5 USB2.0 2x128MB - 8bit
KUSBDTE/512	T5 USB2.0 2x256MB - 8bit
KUSBDTE/1GB	T5 USB2.0 2x512MB - 8bit
KUSBDTE/2GB	T5 USB2.0 2x1024MB - 8bit
KUSBDTE/4GB	T5 USB2.0 4x1024MB - 8bit

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Manual abstract:

It is compatible with the following Windows Operating Systems: Windows 2000 and Windows XP Mac OS: 9.1 and above (some versions may not be supported due to possible Mac OS issues) 2. Part Numbers Table 1: Available DataTraveler Elite Products / Part Numbers Part Number Description T5 USB2.0 2x128MB - 8bit T5 USB2.0 2x256MB - 8bit T5 USB2.0 2x512MB - 8bit T5 USB2.0 2x1024MB - 8bit T5 USB2.0 4x1024MB - 8bit KUSBDTE/256 KUSBDTE/512 KUSBDTE/1GB KUSBDTE/2GB KUSBDTE/4GB Document 4808009-001.A03 10/13/2005 1 Date Description Reference 2.1 Product Architecture The diagram in Figure 1 illustrates the DataTraveler Elite's main functional blocks.

LEDs Xtal Clock Mechanism GPIOs Timers and Counters USB Protocol USB Connector USB Controller Multi Layer Bus ARM-7 TDMI 32-Bit RISC CPU M-Systems Flash Controller NAND Flash Vbus Voltage Regulator 3.3V Crypto Core SRAM Reset Mechanism SROM DOK T5 ASIC Figure 1: Kingston DataTraveler Elite Block Diagram Document 4808009-001.A03 10/13/2005 2 3. PRODUCT SPECIFICATIONS 3.1 Device Dimensions (in mm.

) Document 4808009-001.A03 10/13/2005 3 3.2 Performance Table 2 describes the read/write performance of the DataTraveler Elite Extended. @@2.

@@Performance was measured on a high-end platform with the following configuration: P4-2.

*7 GHz, 512MB RAM. 3.3 • • • LED Functionality LED flashing slowly: Kingston DataTraveler Elite is connected and inactive. @@@@@@@@descriptor) 0x0200 (USB spec. @@These are absolute stress ratings only. @@Exposure to absolute maximum ratings for extended periods can adversely affect device reliability. Table 4: Absolute Maximum Ratings Parameter Ambient Operating Temperature Range Power Supply Voltage Relative to Ground Voltage level on D+ / D- Relative to Ground 3 Symbol TA Vbus Vdata Min 0 4 -1 Max 60 6 4.6 Unit °C V V * Pulse width should not exceed 166 ns. 4.2 DC Characteristics Table 5: DC Characteristics for Full-Speed Operation (TA = 25°C,VDD = 3.*

3v, VSS = 0V) Parameter Symbol Test Conditions USB Signals VBUS Min 4.40 ------RL of 1.5 kΩ to 3.6V RL of 15 kΩ to GND -2.0 0 2.6 1.3 Typ 5.00 Max 5.25 Unit V Supply Voltage: Supply Current (RMS) Operating: Standard Configuration Enhanced Configuration Suspend Input Levels USB Signals (D+, D-): Low High Output Voltage USB Signals (D+, D-): Low High Output Signal Crossover Voltage USB Signals (D+, D-) Icc Icc Iccs VIL VIH VOL VOH VCRS VBUS=5.0v 65 75 <500 ----- 88 105 <500 0.

8 -0.4 3.6 2.0 mA mA µA V V V V V Document 4808009-001.A03 10/13/2005 11 Table 6: DC Characteristics for High-Speed Operation (TA = 25°C,VDD = 3.

3v, VSS = 0V) Parameter Supply Voltage: Supply Current (RMS) Operating: Standard Configuration Enhanced Configuration Suspend Input Levels USB Signals (D+, D-): Low High Output Voltage USB Signals (D+, D-): Low High Output Signal Crossover Voltage USB Signals (D+, D-): Symbol Test Conditions USB Signals VBUS Min 4.40 ------RL of 1.5 kΩ to 3.6V RL of 15 kΩ to GND -2.0 0 2.

6 1.3 Typ 5.00 Max 5.25 Unit V Icc Icc Iccs VIL VIH VOL VOH VCRS VBUS=5.0v 75 105 <500 ----- 100 125 <500 0.8 -0.4 3.6 2.0 mA mA µA V V V V V 4.3 Oscillator Connection Kingston DataTraveler Elite works with an internal 48 MHz clock that it creates from an external 12 MHz clock via an internal PLL.

@@@@Non-Operating 10 G RMS, 10 to 2,000 Hz, 0.5 Oct/min sweep rate 5.5 5.6 5.7 Shock Drop Test Dust Protection Non-operating: 55 G, 11 ms, half-sine. .

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