



DV Touch SAW USB Controller Model: DV300U1

Electrical Parameters

Supply Voltage and Current

- +12 VDC, nominal (+9.6 VDC to +13 VDC), 85 mA, typical at +12VDC
- Average power dissipation is 1 W, typical Supply must be capable of sourcing 200 mA, minimum
- Total noise and ripple requirement must be less than 100 mV (p-p) for frequencies below 1 MHz, and less than 50 mV (p-p) for frequencies above 1 MHz.

Interface

- USB 1.1

Touch Resolution

- 4096x4096, size independent, 256 levels of Z (pressure)

Conversion Time

- Less than 15 ms per coordinate set (including transmitting time)

Reliability

- MTBF greater than 250,000 hours per MIL-HDBK-217-F2 using the parts stress calculation method for ground benign environment with an ambient temperature of 25°C

Environmental Temperature

- Operating: 0°C to 65°C
- Storage: -25°C to 85°C

Humidity

- Operating: 10% to 90% RH, non-condensing
- Storage: 10% to 90% RH, non-condensing

ESD

- Per EN 6100-4-2: Contact discharge 4kV, air discharge 8kV

Flammability

- The printed circuit board substrate is rated 94V0. All plastic components such as headers and connectors are also rated 94V0



Physical Characteristics

Construction

- Multi-layer surface-mount design with internal ground plane for EMI suppression

Dimensions

- Total Width: 2.441 inches (62 mm), including connectors
- Total Length: 3.346 inches (85 mm)
- Total height: 0.433 inches (11 mm)
- All mounting holes are plated through for chassis ground connection. Refer to the drawings at the end of this document.

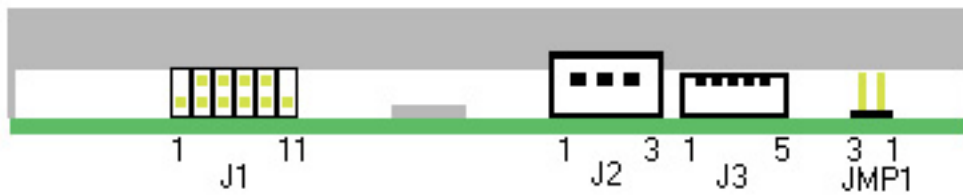
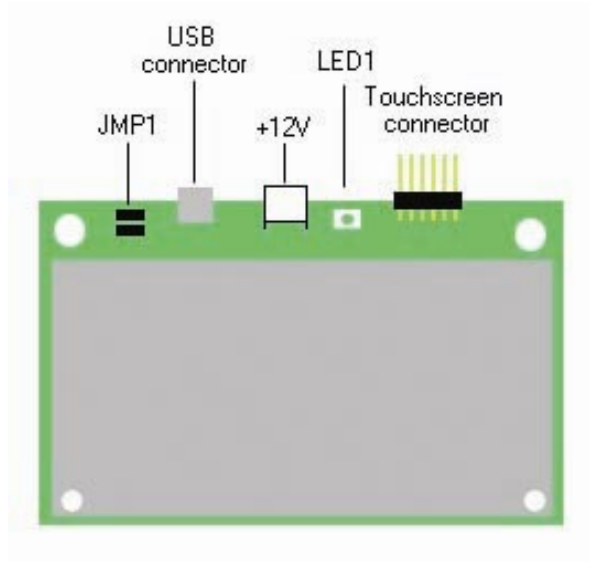
Operational Systems Support:

- Windows ME/2000/XP (Driver Ver.1.0, 2.01)
- Windows CE on X86 (ask info@digitalvision.com.hk)
- Windows Embedded on X86 (ask info@digitalvision.com.hk)
- Windows Embedded on ARCA (ask info@digitalvision.com.hk)
- Linux (ask info@digitalvision.com.hk)

HID compatibility upon customer request:

- ELO Touch (ask info@digitalvision.com.hk)
- General Touch (ask info@digitalvision.com.hk)

Jumpers & Connectors:



J1			
1	GND	7	GND
2	NC	8	GND
3	Y-in2	9	X-in2
4	Y-out	10	X-out
5	Y-in1	11	X-in1
6	GND	12	NC

J2	
1	GND
2	GND
3	+12V

J3	
1	+5V
2	D-
3	D+
4	NC
5	GND

JMP1		
1-3	ON	Screen Size: 8" - 17"
2-4	OFF	
1-2	ON	Screen Size: 18"- 29"
2-4	OFF	

Cables Set:

