

SECUREPAD PRODUCT BRIEF

The Synaptics SecurePad™ combines Synaptics industry leading TouchPad™ with Validity's advanced LiveFlex™ biometric sensor in an integrated biometric TouchPad for the notebook market.

The SecurePad is based on Validity's LiveFlex technology, which offers one of the highest levels of performance and durability, as well as a variety of customization options. LiveFlex technology provides industry leading image quality and improved resistance to both impact and Electro-Static Discharge (ESD), overcoming the drawbacks of existing fingerprint sensors. The key design breakthrough comes from the active sensor being separated from the silicon, which dramatically increases the sensor's resistance to ESD, impact, abrasion and exposure to household liquids and chemicals.

Synaptics SecurePad products are designed to be compatible with leading fingerprint matching algorithm and software packages, which can be combined by OEMs and ODMs to create the best overall solution for both consumer and enterprise applications.

KEY FEATURES & BENEFITS

Integrated Module Solution - Synaptics provides a complete integrated hardware solution that combines the TouchPad and fingerprint sensor in a single, easy to integrate module

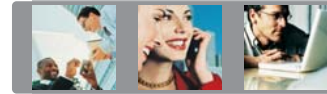
Unparalleled Reliability - Validity's LiveFlex offers the highest levels of sensor durability and performance by separating the active sensor from the silicon, solving durability problems associated with direct human contact to silicon

Industry Leading Imaging Performance - The image line and companion sensor work together to generate a superior grayscale fingerprint image that is second to none

Design Flexibility - The modular design of SecurePad simplifies BTO/CTO assembly of biometric and non-biometric configurations

Flexible Configuration - SecurePad is compatible with leading algorithm and software packages to enable OEMs to develop the best solution for consumer or corporate applications

Enriching the Interaction » between humans and intelligent devices



PHYSICAL SPECIFICATIONS

Module Dimensions:	79.7 mm x 47.7mm (PCB), 76.9 x 40mm (active area) Custom sizes are available
PCB Thickness:	0.86mm
Fingerprint Sensor Thickness:	1.21mm nominal from TouchPad face

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0° C to 60° C
Operating humidity:	5% - 95% relative humidity, non-condensing
Storage temperature:	-40° C to 65° C
ESD:	15 kV applied to TouchPad front surface (when properly mounted) 15 kV air discharge applied to Fingerprint sensor

ELECTRICAL SPECIFICATIONS

TouchPad:	3.0 mA Nominal
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FINGERPRINT SENSOR

Operating Mode:	65 mA Nominal
USB Suspend Mode:	300 μ A Nominal
Shutdown Mode:	1 mA Nominal

OPERATING SPECIFICATION

COMMUNICATIONS PROTOCOL TO HOST

TouchPad:	PS/2®
FingerPrint Sensor:	USB 2.0 Full speed interface
Driver O/S Support:	Microsoft Windows 2000, XP, Vista

PERFORMANCE SPECIFICATIONS

TouchPad Min. X/Y Position Resolution:	>1000 DPI
Fingerprint Sensor X/Y Imaging Resolution:	508 dpi

Contact Synaptics

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