

# SD-2000 "SMART DISPLAY"

ENGINEERING, MANUFACTURING & INTEGRATION, AND LIFECYCLE MANAGEMENT



2010 PORTFOLIO - SMART DISPLAY & ALL-IN-ONE PANEL PC

## RUGGED COM EXPRESS



Standard Configuration Specifications	
Product Code	SD-2000 "Smart Display"
Product Class	Smart Displays & All-In-One Panel PCs
Chassis Type	Conduction Cooled Aluminum
Dimensions	15.287" W x 10.090 H" x 2.9"D
Hard Drive	Up-to (4) 1.8" SATA Removable Hard Drives
Storage Protocol	SATA
Storage Encryption	Optional 128, 192 or 256-bit SATA to SATA Encryption Engine (Available Q1 2010) NIST and CSE Certified Hardware AES (Advanced Encryption Standard) Algorithm
Power Input	28VDC Input
Internal UPS	Optional Dual 14.8V Batteries.
Software	Windows Vista®, XP, XP Embedded, Embedded CE Windows 7 Coming Q4 Linux Contact Sales Rep for Options
Bezel Buttons	Integrated Microchip 24F series USB HID microcontroller. Various Bezel Button / Mouse configurations are available upon request.
Pointer	Optional Wireless Mouse
Keyboard	Optional Wireless Backlit Keyboard

Display Specifications	
Display Size	15.3" Widescreen Display
Display Type	Resistive 8-Wire Touchscreen LCD
Backlight	LED
Resolution	1280 x 800
Brightness	500+ NITS (Daylight Mode)
Contrast Ratio	400:1
Viewing Angle	L/R/T/B: 88°/88°/88°/88°
Color Support	True Color
Sunlight Readable	Yes
NVIS Compliant	Yes

Platform IO Specifications	
28 VDC Power Input	1
Graphics Adapter	COMExpress Graphics Engine Dual Display Support; LCD & DVI Port
RS232	1
USB 2.0 Port	2
10/100/1000 Ethernet	2, (1 from COMExpress Module)
Audio	(1) Audio-In Port , (1) Audio-Out Port
Storage	(4) 1.8" SATA (320GB Rotating, 160GB Solid State)
Mini PCI Express Slots	2 Internal Optional modules include GPS, 802.11, Bluetooth Cellular Data Modem, Video Capture
System Diagnostics	Optional Port 80h

# TAG IS IT™

# SD-2000 "SMART DISPLAY"

ENGINEERING, MANUFACTURING & INTEGRATION, AND LIFECYCLE MANAGEMENT



## 2010 PORTFOLIO - SMART DISPLAY & ALL-IN-ONE PANEL PC

Specifications subject to change without notice.

### COMExpress Module Options

CPU Module Options	Intel® Core™ i7 SV and i5 processors	Intel® Core™2 Duo SL 9400 Low Voltage	Intel® Atom™ N270
Clock Speed	2.00 GHz (Up-To 2.53 GHz)	1.86 GHz (Up-To 2.53 GHz)	1.6 GHz (Up-To 2.53 GHz)
Cache	Up-To 4 MB L2 Cache	Up-To 6 MB L2 Cache	512 MB Cache
Chipset	Intel® Mobile QM57	Intel® GS45, GM45 and GL40	Intel® 945GME, 82801GHM
Hyper-Threading Support	Yes	Yes	Yes
Memory	Up-To 8 GB Dual Channel DDR3	Up-To 8 GB Dual Channel DDR3	Up-To 4 GB Dual Channel DDR2
Bus Speed	800/1066 MHz	667/800/1066 MHz	533 MHz
Ethernet	10/100/1000 Mbit Ethernet	10/100/1000 Mbit Ethernet	10/100/1000 Mbit Ethernet
Ethernet Controller	Intel® 82557	Intel® 82567	Realtek RTL8111
Hard Disk	4x SerialATA (3Gb/Sec), 1x PATA	4x SerialATA 300 (AHCI, RAID), 1x PATA	2x SerialATA (PATA Optional)
RAID		0 1	0 1
USB (Internal)	8x USB 2.0	8x USB 2.0	8x USB 2.0
Audio Controller	Intel® High Definition Audio	Intel® High Definition Audio	Digital High Definition Audio Interface with Support for Multiple Codecs
Graphics Controller	Integrated Intel® Core™ i7 or i5 Graphics Controller	Intel® GMA X4500 integrated (DirectX® 10, PS 4.0, DVMT 4.0), 1 x PEG x16	Intel® Graphics Media Accelerator 950, Enhanced 256 Bit 3D Video Controller, Up-To 10.6 GB/Sec Memory Bandwidth
PCI Express / PCI Support	6x PCI Express Lanes on Type 2, 1 PEG x16 / PCI Rev 2.3 @ 33 MHz	5x PCI Express Lanes (1 x PCI Express x4 Possible), 1 x PEG x16 / PCI Rev 2.3 @ 33 MHz	5x PCI Express Lanes, PCI Express Graphic (PEG x16), PCI, I <sup>2</sup> C / PCI Rev 2.3 @ 33 MHz
Resolution Support	LVDS: Up to UXGA (1600x1200) CRT: Up to QXGA (2048x1536)	LVDS: Up to UXGA (1600x1200) CRT: Up to QXGA (2048x1536)	LVDS: Up to WUXGA (1920x1200) CRT: Up to QXGA (2048x1536)
Security Feature	TPM 1.2 integrated in ICH9M	TPM 1.2 integrated in ICH9M	TPM 1.2/TCPA Security Functions Optional

### Environmental Specifications

Operating (O) Temperature	Tested per Requirement: 0°C to 60°C, MIL-STD 810G	Salt/Fog	Tested per Requirement: MIL-STD 810G
Non-operating (N) Temperature	Tested per Requirement: -10°C to 85°C, MIL-STD 810G	Sand and Dust	Tested per Requirement: MIL-STD 810G
Altitude	Tested per Requirement: (O) 15,000 ft, MIL-STD-810G	Warranty	(1) Year Parts and Labor Guarantee
Humidity	Tested per Requirement: (O) 10-90%RH, (N) 5-95% Non Condensing, MIL-STD-810G	Tech Support	24x7 Technical Support Provided By TAG
Shock	Tested per Requirement: MIL-STD 810G		
Vibration	Tested per Requirement: MIL-STD 810G		
Fungus/Mold	Tested per Requirement: MIL-STD 810G		

**Rugged. Reliable. Ready.™**

