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Medical Computing Platforms

Advancing Quality and Efficiency of Healthcare



- / Point-of-Care Terminal
- / Medical Tablet PC
- / Patient Infotainment Terminal
- / Medical Mini PC and Image Display

Advanced Healthcare

Nowadays, advanced hospitals are experiencing a trend toward “real time, paperless and film-free” patient monitoring, record tracking and nursing care. The medical profession has taken advantage of advanced technology and products that are capable of a high level of networking and integration, as well as high-quality image display support. Of course, computers will never replace doctor-patient relationships in most healthcare areas. However, computers have been widely adopted in many different stages of medical care, effectively collecting information, precisely analyzing data, and aiding medical professionals make treatment decisions. This has resulted in overall enhancements to quality in delivering patient care.

Enabling Digital Healthcare



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You Can Trust

A Medical Platform to Count On

Advantech is a market leader with over 7 years experience delivering comprehensive high-performance computing systems for the medical market. All computing platforms are designed to satisfy demanding mission-critical goals for enhancing the quality and efficiency of healthcare. They all match the performance of commercial PCs and are much more attractive because they feature tough industrial qualities such as UL60601-1 and EN60601-1 medical safety approval, as well as having an IPX1 certified dust and water drip-proof enclosure. Additionally, they have long term support and a proven track record of reliability. All medical systems are ready for quick, and easy installation.

Solid Design and Manufacturing Experience

Advantech Medical Computing platforms are built on over seven years of solid design and manufacturing experience. This bedrock of knowledge has been used to bring numerous highly-dependable computing platforms to market. Hospitals in Europe, America and Asia have utilized Advantech medical platforms to help doctors and nurses handle real-time monitoring needs and improved efficiency.

Certifications

Advantech medical products meet UL60601-1 /EN60601-1 standards for electrical and mechanical safety. In addition to being the basis for many related standards, EN60601-1 is also an FDA recognized standard. The UL60601-1 safety standard contains the full text of EN60601-1 and adds certain US-specific requirements as well. Advantech also has an ISO 13485:2003 certification, which serves as a quality management certification in design and manufacturing to strengthen medical computing under existing national regulations.

Longevity and Reliability

The main impetus of the Advantech engineering process is to build products that guarantee a three to five year life cycle. Durability reduces costly maintenance and simplifies upgrades. By partnering with leading vendors and suppliers, Advantech always provides customers with stable and reliable products to ensure system longevity and overall cost-efficiency.



Committed to Your Healthcare



Customization Service

Advantech offers unique and precise customization services to meet the diversified demand from the medical market. With localized support provided by regional service centers in the US, China, Asia and Europe; combined with online support, Advantech delivers seamless and cost-effective services that meet stringent customization requirements.

Global Sales and Services

For over 25 years, Advantech has built a strong global network, with four design and manufacturing centers in Asia, and service and logistics centers around the globe. With the combined talent of more than 2,000 people, Advantech operates an extensive support, sales and marketing network in 18 countries and 39 major cities to deliver fast time-to-market services to our worldwide customers.



Nursing Care

- Computing platforms on nursing carts save time and increase data recording accuracy
- Speeds up the need for instant access to critical information



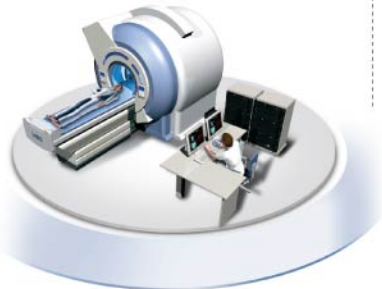
Patient Monitoring

- Integrates anesthesia, vital sign machine, and monitoring devices
- Supports clinical and administrative decision making



Medical Imaging

- High-quality medical imaging display to show detailed information
- High-performance computing platforms for processing and displaying images



Patient Infotainment

- Designed for a better bedside care environment with multimedia entertainment and communication choices
- As a professional diagnosis aid by providing secure access to electronic patient data remotely with an optimized hospital workflow



Point-of-Care Terminals

With UL60601-1, EN60601-1 and IEC60601-1 approval, Advantech all-in-one Point-of-Care (POC) terminals are scalable computing platforms that are designed for easier integration with existing and new hospital system configurations. The Intel processors and high contrast TFT LCDs of the POC series makes them the perfect image terminals for versatile medical applications. Sealed I/O ports, IPX1 compliant chassis and IP65/NEMA4 rated front panels ensure water and dust resistance for easy cleaning and high reliability. This combination of features makes the POC series especially suited for medical environments.



Slim Point-of-Care Terminals

The new generation of slim Point-of-Care (POC) terminals feature 15", 17" and 19" TFT LCDs, fanless Intel Pentium M/Core 2 Duo processors, up to 4 GB of SDRAM and wireless LAN options. The quiet, fanless design makes these slim series terminals ideal for tests involving audio measurement. All slim series terminals are ready for nursing cart applications. POC terminals also comply with IPX1 standards for dust and water spill resistance.



Features

- Full Range of 12", 15", 17" and 19" Point-of-Care Terminals
- Hospital-fit enclosure
- IPX1 Drip-proof standard approved
- Fully Integrated I/O for easy connectivity
- Optional 802.11 a/b/g/n wireless antenna and touchscreen



• IPX1 Drip-proof standard approved



• Sealed enclosure design with side cover prevents unauthorized access to disk and I/O ports



• Optional 802.11 a/b/g/n wireless antenna and touchscreen

Features

- 15", 17" and 19" Point-of-Care Slim Series
- Fanless design with low audible noise
- IPX1 water resistant enclosure with additional IP65 dust-tight front panel
- Isolated design provides unique electric leakage protection for COM ports and LAN ports
- Optional 802.11 a/b/g wireless antenna, touchscreen and battery pack



• 15" POC-S



• 17" POC-S



• 19" POC-S

Medical Imaging Display and Mini PC

The PDC series are quality medical image displays with high contrast LCDs for common medical treatment applications such as endoscope, CT diagnosis, X-ray and PACS. The PDC series terminals are designed with an IPX1 water resistant enclosure with an additional IP65 dust-tight front panel. The PDC series have a DVI port, and SD/HD video ports for reduced signal distortion during transmission. The trim knob enables medical professionals to precisely control specific parameters such as dosage, while the touchscreen provides a convenient interface that is easier to clean than a keyboard and mouse. In addition, Advantech also provides a medical mini PC which comes with a compact housing and IPX1 water resistant enclosure for space-conscious hospital applications. With fanless design and low noise, the mini PC supports dual display up to a resolution of 1600 x 1200.



Display Features

- 17" and 19" LCD display
- IPX1 water resistant enclosure with additional IP65 dust-tight front panel
- Can be placed in landscape and portrait modes
- Additional DICOM preset function for PDC-190
- Optional S-video and component video ports

Mini PC Features

- Compact housing for limited space
- Fanless design with low audible noise
- Dual display up to a resolution of 1600 x 1200
- Isolated design provides unique electric leakage Protection for COM ports and LAN ports
- IPX1 water resistant enclosure

Mobile Clinical Assistant and Medical Tablet

Advantech's mobile clinical assistant (MCA), based on the Intel MCA reference architecture, brings to market the value of ethnographic research, hospital workflow studies and extensive consultation with healthcare professionals done by Intel that led to MCA's purpose-built reference platform. To streamline medication administration and charting, the MCA reference design integrates technologies that support the "five rights" of patient care: right patient, right time, right medication, right dosage, and right route. This new category of mobile computing solution for healthcare has earned support from clinicians and nursing staff around the world.



Features

- 10.4" LCD display with touchscreen
- Portability and convenience with light weight
- Long battery life of up to 6 hours
- Compact and fanless design
- Certified IP54 dust and water-splash proof enclosure
- Built-in 802.11 a/b/g/n wireless LAN
- Optional webcam



Patient Infotainment Terminal

The all-in-one interactive bedside terminal makes hospital stays easier by providing the same multimedia entertainment and communication choices people enjoy at home, such as telephone, TV, radio, movies, games and the internet. The patient experience is enhanced by intranet access, providing them with access to relevant education on their condition, information on their care-giver team, and hospital information, as well as helping them keep in touch with family and friends through video-conferencing, Skype, and instant messaging. Advantech's patient infotainment terminal also benefits medical staff by providing secure access to electronic patient data with an optimized hospital workflow. As an aid to professional diagnosis, the terminal can remotely retrieve electronic patient records, access databases from the bedside and comply with Hospital Information Systems (HIS) requirements. Hospital administrators will see their medical facilities gain operational efficiencies, increase patient and visitor satisfaction, and improve their quality of care, while boosting profitability.



Features

- Microsoft Windows XP Embedded
- Intel Celeron M 1.06 GHz (Fanless)
- 1.3 M pixel CMOS camera
- Built-in handset, microphone and speaker
- 17" TFT LCD with touchscreen
- Mutiple Inputs: Ethernet (RJ-45), USB x 3
- Smart card reader
- EN60601-1 Approved



Selection Guide

MCA/Medical Tablet



MICA-101



MT-100-TE

CPU		Intel Atom Processor 1.1 GHz/1.6 GHz	AMD Geode LX 800 @ 0.9 W 1Ch., UDMA-66
Front Side Bus		400 MHz/533 MHz	500 MHz
System Chipset		Intel Poulbso SCH	AMD Geode LX 800 & CS5336
Memory		2 GB DDR2 667 SODIMM	512 MB DDR 333 DRAM
Storage	HDD	One 1.8" PATA HDD	One 1.8" IDE HDD
	SSD/CF	Optional SSD (Trade-off HDD)	Optional CF, Type I/II x 1 (Trade-off HDD)
Display	Size/Display Type	10.4" TFT Color LCD	10.4" TFT Color LCD
	Max. Resolution	1024 x 768	1024 x 768
	Viewing Angle	90/50 (L+R/U+D)	90/50 (L+R/U+D)
	Luminance	260 cd/m2	170 cd/m2
	Contrast Ratio	250 : 1	250 : 1
Touch Screen	Type	Dual-Digitizer & Resistive	Analog Resistive
	Light Transmission	-	75 %
	Controller	-	USB Interface
I/O Port	Durability	-	30 Million Touches
	USB Port	1 (mini USB)	2
Network	Speaker (1W)	1	1
	WLAN	802.11 a/b/g/n	802.11 a/b/g
Bluetooth		Yes	Option
Camera		2.0 Mega Pixel	-
RFID		13.56 MHz RFID & Active Tag	-
Bus Expansion		Mini-PCIe Slot x1	Mini-PCI Slot x 1, Accept the Type IIIB (for LWAN)
Li-ion Battery Pack		3760 mAh	4800 mAh
Power Supply		AC/DC Adapter: 63 Watts • Input Voltage: 100~240 VAC, 1.62 A @ 50~60 Hz • Output Voltage: +15 VDC, 4.2 A max	AC/DC Adapter: 100 Watts • Input Voltage: 100~240 VAC, 1.25~0.5 A @ 47~63 Hz • Output Voltage: +15 VDC, 6.6 A max
Optional	Barcode Scanner	1D/2D & UDSI	-
	Trimb Knob	-	USB Interface
	Fingerprint Reader	Yes (Trade-off Webcam)	-
	Webcam	Yes (Trade-off Fingerprint Reader)	-
	3.5G Module	Yes	-
Cradle		VGA x 1, USB x 1, LAN x 1	USB x 4, VGA x 1, 10/100 Ethernet x1, RS-232 x1, DC in x1 Docking Connector x 1, Smart Card Reader x 1
Cooling Fan		Fanless	Fanless
VESA Mounting		75 x 75 mm	75 x 75 mm
Certifications		CE, FCC, CCC, CB, UL60601-1, EN60601-1, CB60601, CB60950, UL2054, UN38.3 Approved	CE, FCC Approved; UL60601-1, EN60601-1 Approved
Dimensions (W x H x D)		258 x 258 x 43 mm (10.16" x 10.16" x 1.69")	261 x 211 x 36 mm (10.27" x 8.31" x 1.42")
Weight		1.5 Kg (3.3 lb)	2 Kg (4.41 lb)

Patient Infotainment Terminal



PIT-1702

CPU		Intel Celeron M ULV 1.06 GHz/ Core 2 Duo 1.06GHz
Memory	Size	1 GB
	Module Type	DDRII DRAM
Display	Size	17" TFT Color LCD
	Max Resolution	1280 x 1024
	Brightness	300 cd/m2
	Viewing Angle	178 ° / 178 °
VGA	Brightness Control	PWM
	Chipset	Intel 945GME
HDD		2.5" SATA 80 GB
I/O Port		USB Port x 3 / Smart Card Reader / Line out / Microphone in
Bus Expansion		mini-PCI Slot x 1 (for WLAN)
Network (LAN)		10/100 Mbps (RJ-45) x 1
Power Supply	Input Voltage	100~240 VAC, 1.1~0.45 A @ 47~63 Hz
	Output Voltage	+18 Vdc, 4.44 A max
Touch Screen	Technology	Analog Resistive
	Controller Port	USB Interface
	Light Transmission	75%
	OS Support	Embedded XP
Touch Life Cycle		30 Million Touches
Working Temperature		0~40 °C
Certification		CE, FCC, CCC, CB, UL, EN 60601-1 Approved
Dimension (W x H x D)		448 x 393 x 73.5 mm (17.64" x 8.31" x 2.89")
Weight		6.8 Kg (14.99 lb) / 7.0 Kg (15.43 lb) with Handset



POC-196

POC-195

POC-176

POC-175

CPU		Intel Core 2 Duo T7400 Processor up to 2.16 GHz	Socket 479 Intel Pentium M Processor up to 2.0 GHz	Intel Core 2 Duo T7400 Processor up to 2.16 GHz	Socket 479 Intel Pentium M Processor up to 2.0 GHz
System Chipset		945GME/ICH7M Chipset 667 MHz FSB	915GME/ICH6M Chipset 533 MHz FSB	945GME/ICH7M Chipset 667 MHz FSB	915GME/ICH6M Chipset 533 MHz FSB
Display	Size/Display Type	19" TFT Color LCD	19" TFT Color LCD	17" TFT Color LCD	17" TFT Color LCD
	Max. Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
	Max. Colors	16.7 M	16.7 M	16.7 M	16.7 M
	Pixel Pitch (mm)	0.294 x 0.294	0.294 x 0.294	0.264 x 0.264	0.264 x 0.264
	Viewing Angle	178 ° / 178 °	178 ° / 178 °	160 ° / 160 °	160 ° / 160 °
	Luminance	300 cd/m2	300 cd/m2	300 cd/m2	300 cd/m2
	Backlight Lifetime	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
Contrast Ratio		1300 : 1	1300 : 1	800 : 1	800 : 1
Memory		Supports up to 4 GB DDRII 533/667 DRAM	Supports up to 2 GB DDRII 533/667 DRAM	Supports up to 4 GB DDRII 533/667 DRAM	Supports up to 2 GB DDRII 533/667 DRAM
HDD/Type		One SATA 2.5" HDD	One 2.5" IDE HDD/ One SATA 2.5" HDD	One SATA 2.5" HDD	One 2.5" IDE HDD/ One SATA 2.5" HDD
FDD/Type		-	-	-	-
Optical Device		DVD-RW Slim Type	Slim Type	DVD-RW Slim Type	Slim Type
PCMCIA Slot		-	-	-	-
CF		-	-	-	-
I/O Port & Speakers	Serial Port	4 (RS-232 x 3, RS-232/422/485 x 1)	3 (RS-232 x 2, RS-232/422/485 x 1)	4 (RS-232 x 3, RS-232/424/485 x 1)	3 (RS-232 x 2, RS-232/422/485 x 1)
	USB Port	4	6	4	6
	IEEE1394a Port	1394b x 1	3	1394b x 1	3
	PS/2 Mouse and Keyboard Interface	1	1	1	1
	D-sub VGA Port	DVI-I VGA x 1	1	DVI-I VGA x 1	1
	Parallel Port	-	1	-	1
	Mic-in/Line-in/Line-out	Yes	Yes	Yes	Yes
	Speakers (1 W)	2	2	2	2
Network (LAN)		Gigabit LAN x 2	Gigabit LAN x 2	Gigabit LAN x 2	Gigabit LAN x 2
Bus Expansion		• PCI 2.2 Expansion Slot x 1 • Mini-PCIe Slot x 1	• PCI 2.2 Expansion Slot x 1 • Mini-PCI Slot x 1	• PCI 2.2 Expansion Slot x 1 • Mini-PCIe Slot x 1	• PCI 2.2 Expansion Slot x 1 • Mini-PCI Slot x 1
Optional	WLAN	IEEE 802.11 a/b/g or IEEE 802.11 b/g/n	802.11 b/g	IEEE 802.11 a/b/g or IEEE 802.11 b/g/n	802.11 b/g
	Touchscreen: Analog Resistive	Yes	Yes	Yes	Yes
	Li-ion Battery Pack	-	-	-	-
Power Supply		AC Model: 300 Watts • Input Voltage: 100~250 VAC, 5/3 A max. @ 50~60 Hz	AC Model: 180 Watts • Input Voltage: 100~250 VAC, 4/2 A max. @ 50~60 Hz	AC Model: 300 Watts • Input Voltage: 100~250 VAC, 5/3 A max. @ 50~60 Hz	AC Model: 180 Watts • Input Voltage: 100~250 VAC, 4/2 A max. @ 50~60 Hz
Cooling Fan		Yes	Yes	Yes	Yes
Front Panel		IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant
Whole System		IPX1 Compliant	IPX1 Compliant	IPX1 Compliant	IPX1 Compliant
VESA Mounting		75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm
Certifications		CE, FCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved
Dimensions (W x H x D)		472 x 416 x 124 mm	472 x 416 x 124 mm	437 x 377 x 131 mm	437 x 377 x 131 mm
Weight		10.5 Kg (23.15 lb)	10.5 Kg (23.15 lb)	10 Kg (22.05 lb)	10 Kg (22.05 lb)



POC-155

POC-125

CPU		Socket 479 Intel Pentium M Processor up to 2.0 GHz	Soldered Type Intel Celeron M Processor 600 MHz / 1 GHz
System Chipset		915GME/ICH6M Chipset 533 MHz FSB	855GME/ICH4 Chipset 400 MHz FSB
15" TFT Color LCD		1024 x 768	800 x 600
262 K		262 K	262 K
0.297 x 0.297		0.307 x 0.307	0.307 x 0.307
120 ° / 120 °		140 ° / 140 °	140 ° / 140 °
350 cd/m2		400 cd/m2	400 cd/m2
50,000 Hours		50,000 Hours	50,000 Hours
500 : 1		500 : 1	500 : 1
Supports up to 2 GB DDRII 533 DRAM		Supports up to 2 GB DDR 333 DRAM	Supports up to 2 GB DDR 333 DRAM
One 2.5" IDE HDD/ One SATA 2.5" HDD		One 2.5" IDE HDD	One 2.5" IDE HDD
-		-	-
Slim Type		-	-
-		-	-
-		Type I/II x 1	Type I/II x 1
3 (RS-232 x 2, RS-232/422/485 x 1)		2 (RS-232 x 1, RS-232/422/485 x 1)	2 (RS-232 x 1, RS-232/422/485 x 1)
6		4	4
3		1	1
1		1	1
1		-	-
Yes		Yes	Yes
2		2	2
Gigabit LAN x 2		10/100 Mbps x 1	10/100 Mbps x 1
• PCI 2.2 Expansion Slot x 1 • Mini-PCI Slot x 1		• PCI 2.2 Expansion Slot x 1 • Mini-PCI Slot x 1	• PCI 2.2 Expansion Slot x 1 • Mini-PCI Slot x 1
802.11 b/g		802.11 b/g	802.11 b/g
Yes		Yes	Yes
-		-	-
AC Model: 180 Watts • Input Voltage: 100~250 VAC, 4/2 A max. @ 50~60 Hz		DC Model: 50 Watts • Input Voltage: +24 VDC, 2.08 A max	DC Model: 50 Watts • Input Voltage: +24 VDC, 2.08 A max
Yes		Fanless	Fanless
IP65/NEMA 4 Compliant		IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant
IPX1 Compliant		IPX1 Compliant	IPX1 Compliant
75 x 75 mm, 100 x 100 mm		75 x 75 mm	75 x 75 mm
CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved		CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved
418 x 342 x 115 mm		348 x 287 x 92 mm	348 x 287 x 92 mm
6.5 Kg (14.33 lb)		4.5 Kg (9.92 lb)	4.5 Kg (9.92 lb)



PIN-M106

CPU		Soldered Type Intel Celeron M Processor 1.06 GHz
System Chipset		945GME GMCH/ICH7M Chipset 533 MHz FSB
Graphics Chipset		Intel 945GME with Intel Graphics Media Accelerator 950 Engine
Max. Resolution		1600 x 1200
Memory		Supports up to 4 GB DDRII 533 DRAM
HDD/Type		One SATA 2.5" HDD
I/O Port & Speakers	Serial Port	RS-232 x 2
	USB Port	4
	DVI Port	DVI-I x 1, DVI-D x 1
	Mic-in/Line-in/Line-out	Mic-in/Line-out
Network (LAN)		Gigabit LAN x 3
Bus Expansion		• Mini-PCI-E Slot x 1 • Mini-PCI Slot x 1
Power Supply		DC Model: 80 Watts • Input Voltage: +18 VDC, 4.44 A max DC Model: 100 Watts • Input Voltage: +18 VDC, 5.55 A max
Cooling Fan		Fanless
Whole System		IPX1 Compliant
VESA Mounting		100 x 100 mm
Certifications		CE, FCC Approved; EN60601-1, UL60601-1 Approved
Dimensions (W x H x D)		261 x 185 x 67 mm (10.27" x 7.26" x 2.63")
Weight		4 Kg (8.82 lb)



POC-S196



POC-S195



POC-S176



POC-S175



POC-S155

CPU		Soldered Type Intel Core Duo Processor 1.66 GHz	Soldered Type Intel Pentium M Processor 1.4 GHz/ Celeron M Processor 1.0 GHz	Soldered Type Intel Core 2 Duo 1.5 GHz/ Core Duo 1.66 GHz	Soldered Type Intel Pentium M Processor 1.4 GHz/ Celeron M Processor 1.0 GHz
System Chipset		945GME GMCH/ICH7M Chipset 667 MHz FSB	855GME GMCH/ICH4 Chipset 400 MHz FSB	945GME GMCH/ICH7M Chipset 667 MHz FSB	855GME GMCH/ICH4 Chipset 400 MHz FSB
Display	Size/Display Type	19" TFT Color LCD	19" TFT Color LCD	17" TFT Color LCD	17" TFT Color LCD
	Max. Resolution	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
	Max. Colors	16.7 M	16.7 M	16.7 M	16.7 M
	Pixel Pitch (mm)	0.294 x 0.294	0.294 x 0.294	0.264 x 0.264	0.264 x 0.264
	Viewing Angle	178 ° / 178 °	178 ° / 178 °	160 ° / 160 °	160 ° / 160 °
	Luminance	300 cd/m2	300 cd/m2	300 cd/m2	300 cd/m2
	Backlight Lifetime	50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours
Memory		Supports up to 4 GB DDRII 533/667 DRAM	Supports up to 2 GB DDR 333 DRAM	Supports up to 4 GB DDRII 533/667 DRAM	Supports up to 2 GB DDR 333 DRAM
HDD/Type		One SATA 2.5" HDD	One 2.5" IDE HDD	One 2.5" IDE HDD	One 2.5" IDE HDD
FDD/Type		-	-	-	-
Optical Device		-	-	-	-
PCMCIA Slot		-	-	-	-
CF		-	Type I/II x 1	-	Type I/II x 1
I/O Port & Speakers	Serial Port	1 (RS-232/422/485 x 1)	2 (RS-232 x 1, RS-232/422/485 x 1)	1 (RS-232/422/485 x 1)	2 (RS-232 x 1, RS-232/422/485 x 1)
	USB Port	4	2	4	2
	IEEE1394a Port	-	-	-	-
	PS/2 Mouse and Keyboard Interface	-	1	-	1
	D-sub VGA Port	1 (DVI-I)	1	1 (DVI-I)	1
	Parallel Port	-	-	-	-
	Mic-in/Line-in/Line-out	Mic-in/Line-out	Mic-in/Speaker-out	Mic-in/Line-out	Mic-in/Speaker-out
	Speakers (1 W)	2	2	2	2
Network (LAN)		Gigabit LAN x 2	10/100 Mbps x 2	Gigabit LAN x 2	10/100 Mbps x 2
Bus Expansion		• Mini-PCI-E Slot x 1 • Mini-PCI Slot x 1	• Mini-PCI Slot x 1	• Mini-PCI-E Slot x 1 • Mini-PCI Slot x 1	• Mini-PCI Slot x 1
Optional	WLAN	802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g
	Touchscreen: Analog Resistive	Yes	Yes	Yes	Yes
	Li-ion Battery Pack	-	-	-	4400 mAh
Power Supply		DC Model: 100 Watts • Input Voltage: +18 VDC, 5.55 A max	DC Model: 100 Watts • Input Voltage: +24 VDC, 4.16 A max	DC Model: 80 Watts • Input Voltage: +24 VDC, 3.33 A max	DC Model: 80 Watts • Input Voltage: +24 VDC, 3.33 A max
Cooling Fan		Fanless	Fanless	Fanless	Fanless
Front Panel		IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant	IP65/NEMA 4 Compliant
Whole System		IPX1 Compliant	IPX1 Compliant	IPX1 Compliant	IPX1 Compliant
VESA Mounting		75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm	75 x 75 mm, 100 x 100 mm
Certifications		CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved	CE, FCC, CCC Approved; EN60601-1, UL60601-1 Approved
Dimensions (W x H x D)		472 x 416 x 111 mm	472 x 416 x 111 mm	437 x 377 x 84 mm	437 x 377 x 84 mm
Weight		10 Kg (22.05 lb)	10 Kg (22.05 lb)	7.2 Kg (15.87 lb)	7.2 Kg (15.87 lb)



PDC-190S



PDC-190



PDC-170S

Display Type		19" TFT Color LCD	19" TFT Color LCD	17" TFT Color LCD
Max. Resolution		1280 x 1024	1280 x 1024	1280 x 1024
Max. Colors		16.7 M	16.7 M	16.7 M (6 Bits + FRC)
Dot Size (mm)		0.294 x 0.294	0.294 x 0.294	0.264 x 0.264
Display Viewing Angle		170 ° / 170 °	170 ° / 170 °	160 ° / 160 °
Luminance		600 cd/m2 (DICOM Preset at 400 cd/m2)	600 cd/m2 (DICOM Preset at 400 cd/m2)	300 cd/m2
Contrast Ratio		1000 : 1	1000 : 1	800 : 1
LCD MTBF		50,000 Hours	50,000 Hours	50,000 Hours
Backlight Lifetime		50,000 Hours	50,000 Hours	50,000 Hours
Video Input Port	Composite	BNC x 1	-	-
	S-Video	Mini DIN-4 x 1	-	Mini DIN-4 x 1
	YPbPr/RGB	BNC x 3	-	RCA x 3
	Ext SYNC	BNC x 1	-	-
	HD/SD-SDI	BNC x 1	-	-
	DVI	DVI-I x 1	DVI-D x 1	DVI-D x 1
Video Output Port (Loop through)	VGA	Through DVI-I to HD15Adapter	HD-15 x 1	HD-15 x 1
	Composite	BNC x 1	-	-
	S-Video	Mini DIN-4 x 1	-	-
Audio/USB hub/Power	HD/SD-SDI	BNC x 1	-	-
	Line-in	Phone Jack x 1	Phone Jack x 1	Phone Jack x 1
	USB Downstream	Type A x 2	Type A x 2	Type A x 2
	DC Power Connector	Type B x 1	Type B x 1	Type B x 1
Dimensions (W x H x D)		DIN-4 x 1	DIN-4 x 1	DIN-4 x 1
RS-232C Communication Port (OSD remote control)		DB9 x 1	DB9 x 1	DB9 x 1
Speakers		1 W Speakers x 2	1 W Speakers x 2	-



Patient Data Management with 19" Point-of-Care Terminal

Location: Medisch Spectrum Twente in The Netherlands
Customer: Alpatron Medical Systems BV

Introduction

Alpatron Medical Systems based in the Netherlands, is a distributor of medical equipment to display, print, store and distribute images, sound and other medical data. They provide Web-based solutions for the acquisition, archiving and distribution of all medical images in hospitals, diagnostic centers, private clinics and healthcare groups. Additionally they specialize in: patient infotainment, specializing in bedside TV and telephone; trolley/mounting systems, with ergonomics and safety being the main concern; and medical monitors and peripherals, focused on safety and reliability. They design advanced configurations to meet specialized needs.

Solution

The Medisch Spectrum Twente (MST) is the largest non-academic hospital in the Netherlands, offering clinical care, with a level I trauma center, various health care departments, and over 200 medical professionals. Having up-to-date information, readily accessible to both the employees and patients at the MST is critical. The hospital defined a project to deploy a Patient Data Management System (PDMS) in several critical areas within the hospital. Key requirements for the hospital were selection of a system which provided a large display and could be strategically placed, as well as providing an easy to use interface. The MST selected Advantech POC-195. The project called for integration of the POC terminal in the intensive care units, medical center, and operating areas of the hospital.

System

The hospital recognized that Advantech POC-195 offered the performance and large screen size (19" LCD display) they needed, was easily mountable and backed with great service. The POC terminal is also EN60601-1 safety certified, and resistant to dust, spills and water damage, with its protected LCD display and sealed enclosures. From the point of selection, through planning and installation, Alpatron has fully supported the Medisch Spectrum Twente in its selection of POC-195. Providing carefully detailed, upfront planning, Alpatron's deployment was a problem-free installation.

Benefits

- After deployment the hospital cited several benefits derived from the project's success:
- Large display, flexible options and strategic placement in critical areas led to ease-of-use and quick adoption by hospital professionals
 - Transformation from a paper-based system to a digital-based system
 - Improved quality and delivery of information throughout the hospital





Slim Point-of Care Terminals Enable Mobile Healthcare and Improve Efficiency

Location: Taipei, Taiwan
Customer: Shinkong Wu Ho-Su Memorial Hospital

Introduction

The integration of point-of care terminals with nursing carts has transformed patient management in hospitals and clinics, replacing charts and material stacks with streamlined, digital and real-time diagnostic information tools. Performing everything from viewing X-rays and ultrasound images, to accessing legacy systems and updating patient electronic medical records (EMR) wirelessly, they allow medical professionals to focus their attention on patient care rather than records management. Increasing the accuracy and immediacy of pertinent information during emergencies are essential elements of modern healthcare. These situations can be addressed by using computers to help facilitate the demanding need for information imposed upon doctors and nurses by allowing them to have access to critical data instantly.

Solution

Shin Kong Wu Ho-Su Memorial Hospital undertook a major transition to digitalize its medical diagnostic and treatment equipment in order to provide the best and most efficient care for its patients. As part of the project planning, they identified key requirements for their system:

- Panel PCs mounted on nursing carts needed to be jolt resistant and reliable.
- Systems had to be fanless and operate noiselessly so as not to disturb the patients.
- They needed to be robustly designed. Casings had to withstand bumps and collisions.
- They also had to be water proof with anti-corrosive design to hold up to constant use and disinfection.
- There should be a good availability of systems, with first class replacement and maintenance programs in place.

System

Once the planning had been done, Shin Kong Hospital selected Advantech's POC-S175 to complete the project. POC-S175 delivers a large 17" monitor in a slim design, which is IPX1-certified water resistant, and IP65-certified dust-tight, with sealed connectors, to hold up against constant use and cleaning. It is fanless with low audible noise allowing it to be operated next to a patient's bedside without causing disturbance. Wireless support and a battery pack met the hospitals needs for mobility, and the rugged unit is shock resistant to 20 Gs. The reliability of the system is complemented by its support options from Advantech.

The hospital on-site system contained case history on legacy mainframes. This data was accessible by POC-S175 via a WLAN connection. The system was built with a 1 GB anti-seismic hard drive to withstand shocks and crashes. The fanless PCs had special material designed in the casings to reduce impact damage and to improve resistance to alcohol and other external disinfectants. Advantech working together with Cisco, helped provide Shin Kong Hospital a seamless and stable WLAN configuration with assured signal integrity.

Benefits

After the launch of the units, Shin Kong Hospital reported the following benefits:

- Reduction in labor costs: Overall efficiency improved dramatically, and the combined output of the nursing staff has improved considerably.
- Reduction in paper usage: Records and documentation kept on paper at the nursing station have been moved online.
- Mobility: Before adoption of POC-S175 patient files had to be prepared for inspection rounds, often requiring trips back and forth between the central station and the patient bed-sides. Now the data is displayable wirelessly, saving time and reducing delays.





Patient Data Management with Mini PC

Location: Magdeburg, Germany
Customer: MRZ (Medical IT Dept.) / Uniklinikum Otto von Guericke Universität Magdeburg

Introduction

The "University Medical Centre", in Magdeburg, Germany is the largest hospital in the former administrative district of Regierungsbezirk Magdeburg. It has 1,200 beds and each year serves more than 43,000 people on an inpatient basis. If outpatients are included, this number reaches 150,000. The modern medical center can trace its roots to the hospital Sudenburg founded in 1896, and has had a lengthy history, touched by two world wars, reconstruction, growth and its association with the Otto von Guericke Universität. The Medical Faculty and the University of Magdeburg Clinic currently consist of 21 institutes and 24 clinics as well as a great variety of central facilities. The medical research area of the hospital focuses on two areas: neuroscience and immunology.

Solution

A medical center project was initiated to manage patient vital data, perform care planning and documentation, and have ready access to other internal information systems at hand (PACS, Labor, MIBI, Pathology), both near patient bedsides and in the Intensive Care Unit (ICU). The nursing professionals who provided bedside care and intensive, practice-oriented inpatient management needed electronic patient records which could be easily accessed and updated. The hospital was also interested in a solution that could be put in place without the need to hire any technical staff, and with minimal cleaning and maintenance efforts required.

Other requirements outlined in the project included:

- A Windows-based operating system
- Compliance with hygiene standards (antiseptic, dustproof, and water resistant)
- Low-noise in a small form factor
- Easily accessible interfaces
- Simple on-site installation

System

The Advantech PIN-M106 Medical Mini PC was selected for use next to approximately 60 beds in the intensive care units to provide information and online access. The PIN-M106 was chosen based on its outstanding performance as a medical grade computer (with UL60601-1/EN60601-1, CE & FCC Class B certifications) and its fanless design, with galvanic separation of all interface components. The water resistant and dustproof enclosure allowed for easy cleaning by the hospital's staff. The PIN-M106 was suited for use in the ICU, where high brightness displays and visibility from a wide range of angles is important. And it also met the hospital's requirements to conserve space and operate with low noise.

Benefits

After deployment, the University Medical Centre concluded that the standards regulations in the hospital had been met by PIN-M106. Cleaning and maintenance efforts were clearly reduced and there was no need to hire additional staff. Dust was reduced in the areas near intensive care patients, and PIN-M106 lived up to its technical specifications. There was improvement and added convenience for patients and nursing staff alike. Overall the system proved to be a practical business system, integrating easily into the clinical network, and filling the needs to deliver timely and accurate electronic patient data, access to local systems, and management of vital patient care information and documentation.

The University Medical Centre cited the following benefits provided by the PIN-M106:

- Improved efficiency
- Reduction in medication errors
- Increased patient privacy
- Reduction in ongoing maintenance expenditures





Patient Infotainment Terminals Bring Benefits to Hospitals

Location: Trondheim, Norway
Customer: St. Olav Hospital / New Ahus

Introduction

In 2002, the St. Olav Hospital in Trondheim, Norway, was beginning to show its age. A decision was made to design a new hospital on the existing site from the ground up, to be built over a ten year period. The administration wanted a hospital that was fully patient-centric. Their vision was to have “secure information available to the right person at the right time”. In October 2008, another newly built hospital in Norway will open. For this hospital, the New Ahus, the vision is to construct a “paperless hospital”. Medical and non-medical work processes will all be digitized. Building new hospitals requires partners that deliver tomorrow’s technology today. Advantech, working with its partner Imatis to design and integrate a total solution, is able to translate customer vision into reality.

Solution

“A terminal next to every bed”, was one of the defined requirements from the St. Olav and New Ahus hospitals. Advantech and Imatis collaboratively developed the bedside terminals, using Advantech’s Patient Infotainment Terminal, a fanless Intel Celeron M 1.06 GHz processor-based system, with customized software applications by Imatis. The Patient Infotainment Terminal with its user friendly design and interface is a multipurpose terminal that serves the patients’ needs for entertainment, information, communication and environmental control for room lighting, air conditioning and blinds. And while the terminal meets patient needs, it also meets the needs of medical professionals by providing secure bedside access to patient records, facilitating better patient care. Advantech’s Patient Infotainment Terminal offers many features to the bed-side care environment. It has a cleanable housing, suitable for use in a medical care facility. It can easily be mounted with a swing arm and cable, saving space and providing easy access. The fanless design operates noiselessly, and the Patient Infotainment Terminal has an emergency call button for Service-on-Demand (SoD). In addition to these features, the interactive design of the Patient Information Terminal provides patients with a rich multimedia experience. An Embedded CPU utilizing Windows XPe provides performance and stability. The user experience is enhanced by use of a touchscreen display, and the I/O expandability of the system provides for a broad selection of A/V interfaces. By the end of 2008 there were 880 Patient Infotainment terminals at the St. Olav Hospital and 600 at the New Ahus Hospital – delivered in partnership by Advantech and Imatis.

System

- System TV and Radio over IP
- Video
- Internet / E-mail
- Telephone (VoIP)
- Information
- Light control
- Patient signal / Nurse Call
- Games-Xbox

Benefits

- Higher patient satisfaction
- Patient empowerment
- Shortened hospital stays
- Improved communication
- Patient stimulation
- Effective workflow
- Integrated nurse’s channel in the terminal
- Enables specialized notifications to personnel for patient requests like drink or toilet needs.
- Application content can be configured to patient need and situation.
- Content moves with the patient from terminal to terminal throughout hospital departments.



Running professional applications via a smartcard



Solution

The implementation of a PDMS for intensive care, recovery and operating theatres was part of a long-term project. In 1999 the first exploratory talks were held, but it was not until 2005 that sufficient funds were found to realize the new system. The driving force behind the project was anesthesiologist Peter Schutte. He said, "We are a rather small hospital, with five operating beds and five IC beds, but even so, we do a large number of 'big' things that require state of the art anesthetics. That's why we need to have the same equipment in each room, for proper insufflation and monitoring of patients. When we took future developments into account, it was obvious that a computerized system would become absolutely essential." The first phase was the formation of a project team which included representatives from various hospital disciplines. Their duty was to make an internal survey of the wishes and practical demands that the new computer data processing system would need to satisfy. Schutte summarizes the goal: "We approached several software suppliers with this package of requirements suitable for both the IC as well as the operating theatre. Eventually, we chose IMD Soft's Metavision system." Having decided on their software supplier, the next phase involved searching for a hardware platform to run the system. "We specifically chose issues of limited space and collection of too much dust; then you have to deal with the tangle of wiring and cable. In our search for medical computers, we soon discovered the Advantech equipment, supplied by Alpatron. After it was determined which computer we would apply, we worked together to explore the possibilities for mounting the monitors. It soon became clear we had to come up with a unique solution for each department."

System

Equipped with TFT LCD displays and Intel Pentium engines, Advantech POC terminals are designed to resist spills and water damage; protected LCDs and sealed enclosures ensure the system is dust resistant. The hospital chose the POC-174 for their project.

Benefits

The system has operated for a number of months, to the satisfaction of users around the entire hospital. Since PDMS works with web-based forms, the entire hospital profits. This is even truer now, as patients are being admitted on the very day that they will have surgery. It's essential that patient data be fed into the system so that it can be viewed immediately by every department.



Custom-Made Solutions for Every Department in AVL Hospital

Location: Netherlands

Customer: Nederlands Kanker Instituut - Antoni van Leeuwenhoek Hospital (NKI-AVL)

Introduction

The Antoni van Leeuwenhoek Hospital operates closely with the Dutch Cancer Institute in the treatment of cancer.

This specialization involves intensive radioactive and chemical therapies along with close patient monitoring.

The complex work makes heavy demands on Patient Data Management Systems (PDMS) -- and plays a crucial role in the operational processes in the hospital.

The institute chose Alpatron, a local system integrator to implement their new PDMS for medical computers.



Solution

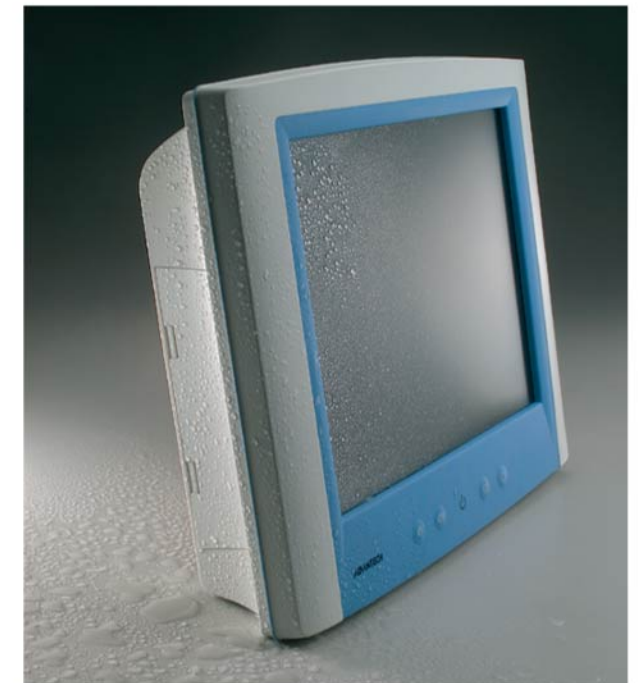
Instead of traditional PCs, MCA chose Advantech's medical-grade panel PC Point-of-Care (POC) terminals, because of the certification of these units. UL60601-1/EN60601-1 ratings, certify protection against electronic radiation, while IPX1 and IP65/NEMA4 ratings certify against water and dust penetration. This makes the POC terminals appropriate for use in S3 areas -- the First Aid department and the plaster room -- where humidity is regarded as a constant. After testing a few demo units with their own software and patient information, MCA found the touchscreen was an advantage. Furthermore, MCA has installed special water-resistant keyboards for workplaces where a lot of patient information needs to be entered, and they have created dual screen solutions combining a panel display console with a panel computer. In this way, the MCA medical staff is able to see electronic X-rays and patient information at same time. The orthopedist is even able to see X-ray images in detail. Equipment sanitation in hospital environments is paramount to the well-being of patients. Advantech's POC terminals can be easily cleaned with isopropyl alcohol and other cleaning agents. In addition to water resistance, they are also designed with features such as collision-resistance and long battery life.

System

With a TFT LCD display and an Intel Pentium engine, Advantech POC terminals are designed to resist spill and water damage, and ensure dust resistance with their protected LCD and sealed enclosure. The new generation of POC terminals, the slim series, is a 15" or 17" TFT-LCD panel powered by a fanless Intel Celeron M processor, available with up to 1GB of SDRAM memory and wireless LAN option. The quiet, fanless design makes the slim series ideal for audio measurement. It is also ready for barcode-enabled POC applications.

Benefits

- Improved efficiency
- Easy monitoring and access to patient information
- Enhanced medical quality



Splash Proof Point-of-Care Terminals Implemented at the Medical Center Alkmaar

Location: Alkmaar, the Netherlands

Customer: Medical Center Alkmaar, the Netherlands

Introduction

The Medical Center Alkmaar (MCA) is a big clinical teaching hospital in the northwest region of the Netherlands. It has more than 900 beds and serves 600,000 inhabitants. This large hospital provides not only patient care, but also training and scientific research. Its core project is to digitalize the hospital. In addition to the aim of increasing medical efficiency, the major concern in this project is how to integrate suitable digital technology into humid hospital environments.



Neurological Research Center Develops Portable Infant Monitor

Location: St Louis, Missouri, USA
Customer: BrainZ Instruments Ltd.

Introduction

St Louis Children's Hospital and the University of Washington, St Louis, have created a leading research center for the study of neurological development in neonates. It is difficult to supply adequate long-term monitoring for infant patients, particularly since existing devices have not been designed adequately to meet the particular needs of neonatal care. A specialized mobile monitor is necessary and it must be easy to use by doctors and nurses in the Neonatal Intensive Care Unit 24 hours, everyday.

Solution

About four in every thousand live births world wide result in neonates that suffer various kinds of encephalopathy. Early diagnosis is essential to help anticipate complications and treat infants right after they are born. The BRM3 monitor was developed by St. Louis clinicians in October 2007 to help conduct clinical research. The monitor system is intended to help professionals make timely decisions about the care of neonates with suspected neurological developmental problems caused by complications before, during or immediately after birth.

System

To construct the BRM3, the Advantech POC123M/POC-125 was mounted on a medical roll pole for convenient portability around the Neonatal Intensive Care Unit (NICU). A data acquisition unit (DAU) connects Brainz Instruments EEG electrodes to the POC123M/POC-125 via USB cable. The system runs specially developed software written by Brainz Instruments and display the process while storing the EEG data simultaneously.

Benefits

- Light and compact easy to use in a crowded NICU
- The graphics are clear and allow rapid reviewing of the patient's EEG data at the bedside.
- Provides high quality information available 24 hour a day.





Solution

Instead of developing their own custom terminal, LiDCO has implemented Advantech's medical-grade panel PC Point-of-Care (POC) terminals because of the certification of these units. UL60601-1/EN60601-1 ratings, certify protection against electronic radiation, while IPX1 and IP65/NEMA4 certify against water and dust. This makes them perfect for use in clinics and hospitals. Equipment sanitation in hospitals is extremely important. Advantech's POC terminals can be easily cleaned with isopropyl alcohol and other cleaning agents. The LiDCO plus Hemodynamic Monitor informs clinicians of important cardiovascular parameters by showing trend, chart, graph, and history screens. The user interface takes advantage of the large, clear LCD touchscreen to provide easily readable, real-time clinical information, while responding to simple touch commands. The combination of LCD and touchscreen help clinicians monitor blood pressure, heart output, and oxygen delivery after major surgery so the risk of complications such as infection can be reduced. This reduced risk means lower average hospital stays for patients and lower costs for each hospital bed. LiDCO integrated its lithium-selective sensors and Lithium Indicator Dilution software with Advantech medical grade panel PCs to give hospitals a portable and easy-to-use value-added solution for monitoring patient hemodynamics at the point of care.

System

With a TFT LCD display an Intel Pentium engine, Advantech POC terminals are designed to resist spill and water damage, and ensure dust resistance with their protected LCD and sealed enclosure. The new generation of POC terminals, the slim series, is a 15" or 17" TFT-LCD panel powered by a fanless Intel Celeron M processor, available with up to 1 GB of SDRAM memory and wireless LAN options. The quiet, fanless design makes the slim series ideal for audio measurement. It is also ready for barcode-enabled POC applications.

Benefits

- Improved efficiency
- Easy monitoring and access to patient information
- Enhanced medical quality

LiDCO puts Medical Computing at the Heart of Cardiovascular Treatment

Location: London, UK
Customer: LiDCO Group Plc, UK

Introduction

LiDCO Group Plc designs, develops, and produces novel medical sensors and software that enable doctors and nurses to improve care for stroke and heart patients during and after surgery, while reducing the costs associated with critical care. LiDCO uses its physiological, sensor, and software expertise to make real-time point-of-care cardiovascular monitoring systems. These systems translate physiological measurements into clinical information for medical practitioners in British, European, East Asian and Southeast Asian teaching hospitals. With sensor and software expertise already developed, LiDCO looked for an expert medical grade computing provider to complete the integration of hardware and software.

