



Features

- 7" LCD with display solution 800 x 480, WVGA
- Supports Atmel ARM9-based CPU with 400MHz
- 128MB SDRAM/128MB NAND Flash, 2MB Data Flash
- DC 12V ~ 40V wide range power input
- Fanless for 0°C ~ 60°C harsh operation environment
- Supports wide temperature T model -20°C ~ 75°C by option
- Supports RS-422/485 with GPIOs for sensing and control
- IP 65 on front panel protection
- Sealed resistive touch screen and 1 million times minimum
- Wide temp TFT LCD with LED backlight, up to 50K hours
- Supports Wi-Fi by OEM/ODM inquiry

To fulfill the complicated operation required in the automation market, AdvanIPC provides the BSP-1070 series with Atmel 400MHz ARM9 RISK-based CPU, 7" TFT brilliant wide screen LCD display, sealed resistive touch screen and wide range DC power input.

These systems are equipped with 128MB SDRAM, 128MB NAND Flash, and 2MB Data Flash for system recovery which support the mission-critical industrial applications. BSP-1070A/B-5060 series are pre-installed with Linux 2.6.38 OS, enables this ideal Linux-ready platform for versatile embedded application. BSP-1070A/B-6060 series are with Windows CE 6.0 which makes this WinCE-ready system an ideal platform for developing remote devices monitoring and control applications.

All BSP-1070 series come with one 10/100Mbps Ethernet, two USB 2.0 hosts, four serial ports, four GPIOs, one Console port, one audio out, a wide range DC input and an optional Wi-Fi feature. They are ready platform for all kind of industrial applications, including factory automation, machine automation, warehouse management and energy-saving control systems.

Specifications

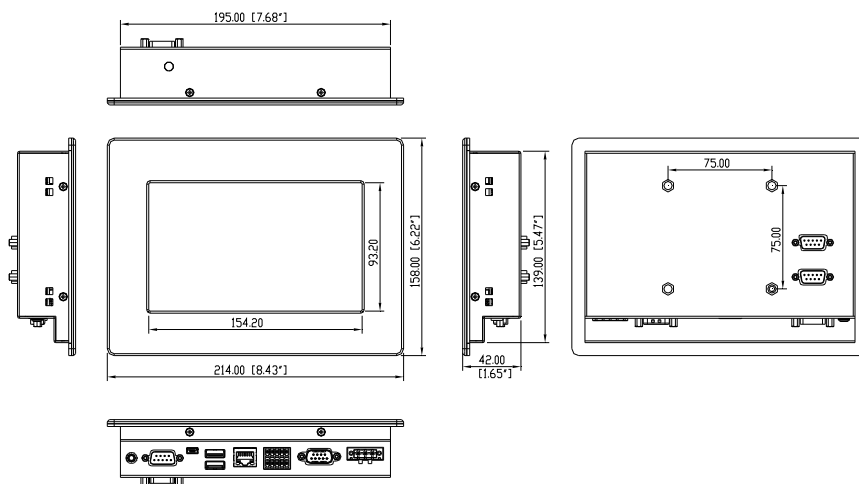
Hardware Specifications	
System	
CPU	ATMEL ARM9 400MHz AT91SAM9G45
Memory	SDRAM 128MB, NAND Flash 128MB
	Data Flash 2MB for system recovery
External I/O	<ul style="list-style-type: none"> • 1 x RJ-45 10/100Mbps Ethernet • 3 x DB-9 RS-232 (COM 3/5/6 - P1/P3/P4) and 1 x DB-9 console port • 1 x Phoenix male 10-pin header for 1 x RS-422/485(COM4/P2) and 4 x GPIOs • 2 x USB 2.0 Hosts, 1 x USB 2.0 Client • 1 x Phoenix male 3-pin for 12 ~ 40V DC input • 1 x Audio Phone Jack • 1 x Wi-Fi antenna (optional feature)
LCD	
Display Size	7" TFT-LCD
Display Resolution	800 x 480
Brightness(cd/m2)	400
Backlight Lifetime	LED 50,000Hrs

Touch Screen	
Type	Resistance touch
Transparency	82.5% Typ.
Mechanical	
Frame Material	Steel Metal (A) or Stainless (B)
Front Panel Protection	IP65
Mounting	Panel / VESA Mount
Dimension(WxHxD)	214x158x42mm(8.43"x6.22"x1.65")
Mounting Depth	90mm(3.54")
Cut-out Dimension(WxH)	198x142mm(7.80"x5.59")
Net Weight/Gross Weight	1.7kg / 2.0kg
Environmental Specifications	
Operation Temperature	0 ~ 60 °C / -20 ~ 75 °C(T model)
Operation Humidity	20% ~ 85% @40 °C, non-condensing
Storage Temperature	-30 ~ 85 °C
Storage Humidity	10% ~ 90% @40 °C, non-condensing
Shock	30G peak acceleration (11msec duration)
Vibration	5~500Hz 4.5G RMS random
Certification	CE, FCC Class A

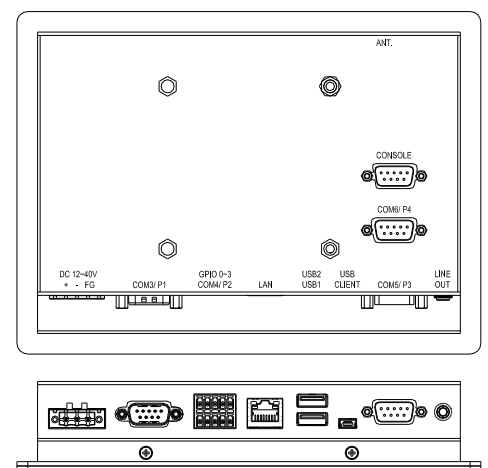
Software Specifications for BSP-1070A/B-5060 series	
General	
OS	Linux, Kernel 2.6.38
Boot Loader	U-Boot 1.1.2
File Systems	UBI, JFFS2, ETX2/ETX3, VFAT/FAT, NFS
Pre-installed Utilities	
	bash, busybox, madplayer, psplash, sysvinit, wget, ipkg, procps(for webmin), psmics, gpe, lighttpd, vsftpd, iptable, ppp, openssh, alsa, wireless_tools, usbutils, phyton, jamvm, php, util-linux-mount/umount, qt4-embedded, mysql, perl, sqlite3, gtk+, x11, artila utility, snmp and more utilities in product CD
Tool Chain for Linux	
GCC	C/C++ PC cross compiler
GLIBC	POSIX Library
GUI	GTK+, X window (x11), GPE and Qt4-embedded
USB Host Drivers	
Generic Flash drive	
RS-232 adaptors	For Prolific PL-2303 compatibles
WiFi dongles	Rt2500/rt18187/rt73/zd1211 chips
Package Management & System Administration	
Ipkg	Package installation, upgrade and removal
Webmin	For web-based system administration

Software Specifications for BSP-1070A/B-6060 series	
General	
OS	Windows CE 6.0 Pro version
Ready-to-use Network Services	
Web Server	Including ASP support
Telnet Server	
FTP Server	
Remote Display Control	Built Windows's client utility
Enhanced Command Mode Utility	
ifconfig	Modify the network interface settings
usrmgr	Create and manage user accounts
update	Update the kernel image and file system
Init	Organize the application programs which runs automatically after system boot-up
gpioctrl	Control the GPIOs
System Failover Mechanism	
NAND Flash crashed	System can boot up from Data Flash System Recovery Function by Console Menu-driven utility will be active
Application Development & Deployment	
Programming language	Comes with SDK for C/C++
Application program	ActiveSync, USB pen drive locally, FTP remotely

Dimensions



Rear View



Panel Cut-out Dimensions: 198 x 142 mm(7.80" x 5.59")

Ordering Information

Ordering Part Number	LCD	Frame Material	OS	Operating Temperature	Lead Time
BSP-1070A-5060	7" TFT	Steel	Linux 2.6.38	0 ~ 60 °C	Available
BSP-1070A-6060	7" TFT	Steel	Win CE 6.0	0 ~ 60 °C	Available
BSP-1070B-5060	7" TFT	Stainless	Linux 2.6.38	0 ~ 60 °C	4 weeks
BSP-1070B-6060	7" TFT	Stainless	Win CE 6.0	0 ~ 60 °C	4 weeks