

B Series Rugged PC

Designed for outdoor and vehicular environments.

- Combine all applications and I/O in one box
- Small form factor (9.2" x 7.9" x 3.8")
- Open Architecture runs all PC operating systems and programs
- 12-29VDC Power Input (9-36VDC operational)
- Built in Transient Protection and Power Management
- Compact, Sealed, Aluminum Case with Passive Cooling Technology
- Mount on any flat surface in any orientation
- Intel® based processors and chipsets
- I/O connectors configurable per specification
- Extended Temperature Range available

Available I/O:

- 5 x RS232C
- 1 x RS232/422/485
- 6 x USB 2.0 ports
- 6 x 82574L GB Ethernet
- 1 x 8-bit GPIO (5V)
- 1 x Audio (IN and OUT)
- 1 x CAN bus
- 1 x Mini-PCI slot
- 1 x PCI Express Mini card slot



B20-MC Computer
6.5 lbs.

Aplus Mobile Fully Sealed
LCD Touchscreen Monitor Option**



Aplus Mobile's

B20-MC Rugged PC and Display Solution

- **Equipment Powered:** 9-36VDC with internal transient protection and power management
- **Completely Sealed Chassis:** Eliminate contaminant ingestion of dust, debris and water
- **Machined Aluminum Case:** For increased durability and flexibility
- **Standard Personal Computer:** Tested to run all standard PC Operating Systems, Programs and Peripherals
- **Extended Capability:** Intel® based processors and chipsets. Incorporate internal WiFi, Cell Modem, internal CAN bus, touchscreen user interface option and more
- **USA Based Design and Manufacture**
- For more information and to download the User Manual, visit www.AplusMobile.com

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B20-MC

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CAGE Code: 4P1Q1

Specifications

- **Capability:** Open Architecture PC so it will run all currently available PC operating systems, applications and peripherals which enables the B20-MC to replace or upgrade existing equipment computers. Integrate multiple applications in one box.
- **Power Efficiency:** Powered by the raw 12-29VDC bus (9-36VDC operational, 0-36VDC operational with internal uninterruptible power supply (UPS)). Power infrastructure upgrades not required.
- **Reliability:** The B20-MC is sealed and passively cooled*** to prevent contaminant ingestion of dust or water, the leading cause of field deployed computer failures; Internal power management system (patent pending) provides immunity to power transients and brownouts; based on Intel chipsets and related components.
- **Flexible Form Factor:** Remotely mounted from monitors and other peripherals for maximum flexibility.
- **Display Solution:** Sealed touchscreen monitors powered by the PC are also available.**
- **Dimensions:** 9.2" L x 7.9" W x 3.8" H (23.4cm x 20.1cm x 9.7cm)
- **Weight:** 6.5 lbs. (104oz.)
- **Temperature:** 0°C to 60°C standard, extended temperature range available
- **User Manual:** Available at www.AplusMobile.com

Available I/O:

5 x RS232C
 1 x RS232/422/485
 6 x USB 2.0 ports
 6 x 82574L GB Ethernet
 1 x 8-bit GPIO (5V)
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B20-MC Accessories and Options

Processor Options

Intel Atom N270 (1.6 GHz) @ 533 MHz FSB
 Intel Core 2 Duo @ FSB 667/800/1066 MHz (Socket P)
 Intel Core 2 Extreme processors @ FSB 667/800/1066 MHz (Socket P)
 Intel Core 2 Quad / Core 2 Duo Desktop @ 800/1066/1333 MHz FSB (LGA775)***

Audio Options

Realtek ALC655 5.1 ch Audio
 Realtek ALC888 HD Audio

1 x Mini-PCI socket available

APM-MP-878D	Mini-PCI video capture card, Conexant Bt878A decoder
APM-MP-323	Mini-PCI IEEE 1394A Module (3 ports)
APM-MP-954	Mini PCI support 4 x Serial Ports Module (3 x RS232 and 1 x RS232/422/485) *
APM-MP-541D2	Mini-PCI Dual Gigabit Ethernet Module
APM-MP-2501	Mini-PCI 802.11b/g Wireless card
APM-MP-954GPS	Mini-PCI GPS Module
MP-878D2	2 ~ 8 channels input Capture Card at 60 fps
MP-6100	4-ch video & audio input H.264 Hardware compression card

1 x PCI Express mini card Module

MPX-954	PCI Express mini card supports 4 x RS232
MPX-574D2	PCI Express mini card supports 2 x Giga LAN
MPX-7767	Wireless LAN mini card supports 802.11 b/g/n
MPX-643	PCI Express mini card supports IEEE1394A & 1394B
MPX-885	MPEG4 Mini PCIe video capture card
MPX-7202	PCI Express mini card supports 2 x USB3.0
MPX-3132	PCI Express mini card supports 2 x SATAII (RAID 0, RAID 1)
MPX-TP4R	PCI Express mini card features touch screen controller

B20-MC Accessories and Options

Video Options

Intel extreme GMA 950 Technology
 Intel extreme GMA 4500MHD Technology
 Intel extreme GMA 3100 technology

OBDDI/CAN Options

Basic	Basic CAN module
Enhanced	Enhanced CAN module (SJA1000, 82C251)

Operating System Options

Preloaded	Windows XP Home Operating System
Preloaded	Windows XP Pro Operating System

Modem Options

GPRS Modem	GSM/GPRS Modem
CDMA Modem	Dual-band CDMA Modem
Edge Modem	Edge Modem

Hard Drive Options

Standard	1 x 32GB SSD SATA, Solid State 2.5" Hard drive
Upgrade	2 x 32GB SSD Hard drive (64GB total)
Upgrade	1 x 64GB SSD Hard drive
Upgrade	2 x 64GB SSD Hard drive (128GB total)
UPS	Internal DC Uninterruptible Power Supply
B20-CS	Basic Accessories Cable Set
PS20-HS	Internal Heater Strips & Thermostat Control Module

* All configurations must be specified at time of order. Motherboard not user accessible. Other configurations available, please consult factory.

** Consult factory for touchscreen monitor options.

*** Quad Core requires external airflow for operation.

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