

RUGGED DC PC

A20-MC is "Rough-and-Ready" for Harsh, Marine Environments

"Ideal for Glass Bridge conversions."

Integrate multiple marine applications with one PC. Provide extended system integration capability. Use USB black boxes to integrate old analog systems to new digital format.

- 12-29 Volt DC Powered Marine Personal Computer
- Uninterruptible Power Conditioning (UPS built-in)
- Compact, Sealed Case (IP65-IP67 optional)
- Ultra-low DC Input Power <40 Watts (2-3A @ 12VDC)
- Intel Core 2 Duo processor



Nobeltec Admiral Suite Software Tested
A20-MC is compatible with all other PC applications



Typical integration. Peripherals are for illustrative purposes only and do not imply endorsement or fitness for use. All trademarks are owned by their respective owners.
* Two RS-232 ports available on A20-MC. External RS-232 multiplexer available for multiple port expansion.



A20-MC

19629 S. McCord Rd.
Oregon City, OR 97045
www.AplusMobile.com
503.265.9325
Sales@AplusMobile.com
CAGE Code: 4P1Q1

Specifications

- **Capability:** Open Architecture so it will run all currently available PC operating systems, applications and peripherals. This enables the A20-MC to replace or upgrade existing field computers that present maintenance or reliability issues. Upgrades can be accomplished by IT personnel, without extended training or infrastructure upgrade.
- **Power Efficiency:** Draws less than 40W of power. Powered by vehicles's primary battery and alternator. No power infrastructure upgrades necessary. The A20-MC is powered by the raw 12-29VDC bus (0-30VDC operational).
- **Reliability:** Passively cooled, sealed (*patent pending*) to prevent contaminant ingestion of dust or water, the leading cause of field deployed computer failures. Power Fault Tolerant™ (*patent pending*) with internal UPS (uninterruptible power supply) so that the A20-MC is immune to power transients.
- **Processing Power:** High computing processor power of the Intel Core 2 Duo, the most advanced processor on the market for mobile applications. The A20-MC is based on Intel chipsets and related components.
- **Flexible Form Factor:** Remotely mounted from monitors and other peripherals for maximum flexibility.
- **Dimensions:** 2.85"h (7.2cm) x 10.5"w (26.7cm) x 9"d (22.9cm)
- **Weight (Standard Configuration):** 10.9 lbs. (4.954kg)
- **User Manual:** Available at www.AplusMobile.com

A20-MC Standard Configuration..... MSRP \$4,895	
Processor	Intel Core 2 Duo, T5600 @ 667MHz FSB
Chipset	Intel GM(E)965 north bridge, ICH8M south bridge
System Memory	2GB DDR2 677 SDRAM memory size (2 x 1GB)
XVGA video	Built-in Intel Graphics with GMA X3100 Technology
Onboard CF Slot	One 2GB CF type-II
Onboard Video	XVGA, TV OUT, Composite, Component (YPbPr), 1080p HDTV 1600 x 1200 max
Onboard Audio	Intel ICH8-M with Realtek ALC888 HD Audio, stereo connection standard with adapter cable
Onboard USB	Two harsh USB 2.0 (Can use standard USB cables)
Onboard LAN	Intel 82573L 10/100/1000GB
Voltage Input	Universal 12-29VDC nominal line
Typical Power Consumption	<40W (2 ~ 3A @ 12VDC)
APM I/O Conn.	DB-15 APM Expansion Connector
Onboard CF Slot	One 2GB CF type-II
Onboard Serial	2 x RS-232 (standard) or 1 x RS-232 and 1 x RS232/422/485 *
Internal Mini-PCI	Two Optional Mini-PCI add-in cards *
Onboard SATA HD	One 250GB SATA, Mechanical 2.5" hard drive

A20 Accessories and Options		MSRP
A20-DH	1DIN, Harsh, Remote Dash Interface with DVD/RW Slot Load Drive and USB Ports	\$899
A20-HH	Harsh USB 2.0 Hub, Aluminum Chassis	\$575
OBDII/CAN Module	Scan interface and software	\$199
OBDII/CAN Module Enhanced	Enhanced parameter per vehicle type (GM/Ford/Chrysler)	\$349
4GB DDR2 RAM	Dual channel (2 x 2GB) MB. Only 3GB accessible.	\$380
A20-CS	Basic Accessories Cable Set	\$299
Firewire	IEEE 1394A pigtail	\$65
T7500 Inte CPU	T7500 Core 2 Duo Upgrade	\$145
Preloaded Windows XP	Windows XP Home Operating System (Add \$50 for Pro Upgrade)	\$249
4GB CF Card	4GB CF Upgrade	\$75
8GB CF Card	8GB CF Upgrade	\$120
16GB CF Card	16GB CF Upgrade	\$185
RS485 / RS422	1 x RS485 or 1 x RS422 *	\$25
APM-MP-878D	Mini-PCI video capture card, Conexant Bt878A decoder	\$214
APM-MP-323	Mini-PCI IEEE 1394A Module (3 ports) with cables	\$257
APM-MP-954	Mini PCI support 4 x Serial Ports Module (3 x RS232 and 1 x RS232/422/485) *	\$156
APM-MP-541D2	Mini-PCI Dual Gigabit Ethernet Module with cables	\$309
APM-MP-2501	Mini-PCI 802.11b/g Wireless card	\$168
Dual 250GB HD	2 x 2.5" Mech. Harddrive (500GB total)	\$180
32GB SSD	32GB Solid State Harddrive	\$240
Dual 32GB SSD	2 x 32GB SSD (64GB total)	\$564
64GB SSD	64GB Solid State Harddrive	\$549
Dual 64GB SSD	2 x 64GB SSD (128GB total)	\$1180

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

Copyright 2003-2007 Aplus Mobile, Inc. All rights reserved.
All Trade Marks are owned by their respective owners, whether marked TM or otherwise.

84-0A20-MA_RH_0903.fm



A20-MC

19629 S. McCord Rd.
Oregon City, OR 97045
www.AplusMobile.com
503.265.9325
Sales@AplusMobile.com
CAGE Code: 4P1Q1