

# PINT-SIZED PC

**“Rough-and-Ready”  
for Harsh Environments**

## ***Ideal for Integrated Fleet Management.***

- Combine all applications in one box
- Small form factor (9" x 7" x 3")
- Open Architecture runs all PC operating systems and programs
- Ultra-low 12-29VDC Power Input (<20W typical)
- Built in Transient Protection and Power Management
- Compact, Sealed, Cast Aluminum Case with Passive Cooling Technology
- Mount on any flat surface
- Intel® Atom based processors and chipsets
- I/O connectors configurable per specification
- Extended Temperature Range available

### **Standard I/O:**

- 1 x 8-bit GPIO
- 1 x INPUT PWR
- 1 x 12VDC OUT
- 2 x RS-232
- 1 x VGA
- 2 x USB



**RT20 Computer**  
4.6 lbs.

Aplus Mobile Fully Sealed  
LCD Touchscreen Monitor Option



## **Aplus Mobile's RT20 Small Rugged PC and Display Solution**

- **Equipment Powered:** 0-48VDC with internal transient protection and power management
- **Completely Sealed Chassis:** Eliminate contaminant ingestion of dust, debris and water
- **Cast Aluminum Case:** For increased durability
- **Standard Personal Computer:** Tested to run all PC Operating Systems, Programs and Peripherals
- **Extended Capability:** Intel® Atom based processor. Incorporate internal WiFi, internal Cell Modem, touch-screen user interface option and much more
- **USA Based Design and Manufacture**
- For more information and to download the User Manual, visit [www.AplusMobile.com](http://www.AplusMobile.com)

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# RT20

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Sales@AplusMobile.com  
CAGE Code: 4P1Q1

## Specifications

- **Capability:** Open Architecture so it will run all currently available PC operating systems, applications and peripherals which enables the RT20 to replace or upgrade existing equipment computers that present maintenance or reliability issues. Integrate multiple systems in one box.
- **Power Efficiency:** Draws less than 20W of power; powered by the raw 12-29VDC bus (0-30VDC operational). No power infrastructure upgrades necessary.
- **Reliability:** The RT20 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. Please consult factory for options.
- **Dimensions:** 8.95" L (22.7cm) x 7.1" W (18.0cm) x 2.96" H (7.5cm)
- **Weight:** 4.6 lbs. (73.1oz.)
- **Temperature:** 0°C to 60°C standard, extended temperature range available
- **User Manual:** Available at [www.AplusMobile.com](http://www.AplusMobile.com)

### Standard I/O\*:

1 x 8-bit GPIO  
 1 x 12VDC IN  
 1 x 12VDC OUT  
 2 x RS-232  
 1 x VGA  
 2 x USB

**\*I/O configurable per specification**

RT20 Standard Configuration..... MSRP \$1,974	
Processor	Intel® Atom N270 processor 1.6GHz
Chipset	Intel® 945GSE & ICH7M
System Memory	2GB DDR2 SO-DIMM SDRAM
XVGA video	Integrated Intel® GMA 950 graphics
Onboard CF Slot	1 x 2GB CF type-II
Onboard Audio	Intel® ICH7-M with Realtek ALC888 7.1CH HD Audio
Onboard LAN	1 x Intel® 82574L Gigabit Ethernet
Voltage Input	Universal 12-29VDC nominal line
Typical Power Consumption	<20W
Onboard CF Slot	1 x 2GB CF type-II
Extended Interface	1 x Mini-PCI socket available
Onboard SATA HD	1 x 250GB SATA, Mechanical 2.5" hard drive

RT20 Accessories and Options		MSRP
A20-CS	Basic Accessories Cable Set	\$299
RT20-HS	Internal Heater Strips & Thermostat Control Module	\$79
CT20-CM	Thermoelectric Cooling Solution Option	\$580
OBDII/CAN	Basic CAN module	\$150
OBDII/CAN Enhanced	Enhanced CAN module (SJA1000, 82C251)	\$419
4 x RCA	4 x Composite video IN	\$178
GPRS Modem	GSM/GPRS Modem	\$315
CDMA Modem	Dual-band CDMA Modem	\$553
Edge Modem	Edge Modem	\$450
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
WiFi CF Card	Internal WiFi Upgrade	\$149
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
APM-MP-954GPS	Mini-PCI GPS Module	\$234
32GB SSD	32GB Solid State Harddrive	\$240
64GB SSD	64GB Solid State Harddrive	\$549

\* 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.

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