

Smart Car Part List

Mechanical platform






Length (Vehicle)	20.07" (510mm)
Width (Vehicle)	15.15" (385mm)
Height (Vehicle)	11.69" (297mm)
Weight	11.04lbs (5010g)(approx.) with radio equipment 9.8lbs (4445g)(approx.) without radio equipment
Wheelbase	13" (330mm)
Tread	Front & Rear-11.02" (280mm) side-to-side at wheel centers
Ground Clearance	1.92" (49mm)
Gear Ratio	34:1
Tires- Front and Rear	4.2" x 6.5" (106mm x 165mm)
Track	Front & Rear 14.92" (379mm) side-to-side at outer edges of wheels
Length (Body)	18.25" (463mm)
Width (Body)	7.36" (187mm) behind front wheels and at rear wheels
Height (Body)	5.12" (130mm)


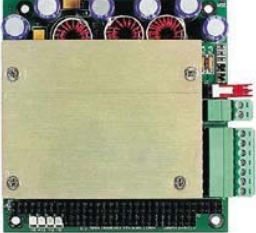

Radio Systems

Futaba 6YG 6-Channel FM	
Futaba R127DF FM 75MHz	

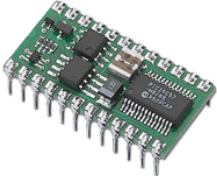


	<p>SPECS: Narrow Band: 20kHz Intermediate Frequency- 1st IF: 10.7MHz 2nd IF: 455kHz Power Requirements: 4.8 to 6.0 volts (shared with servos) Current Drain: 10mA Length: 2.52" (64.3mm) Width: 1.39" (35.8mm) Height: 0.82" (21.0mm) Weight: 1.5oz (40.5g)</p>
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Main computer

<p>Prometheus</p> 	<p>ZF86 100 MHz CPU</p> <p>32 MB RAM 2MB flash memory, can be used as flash disk for file storage Connection for higher-capacity flash disk module up to 256MB 10/100BaseT Fast Ethernet IDE and Floppy Connectors 4 Serial, 1 Parallel, 2 USB Ports 16 Analog In / 4 Analog Out 24 Digital I/O ATX Power IrDA Infrared Port PS/2 Keyboard and Mouse Watchdog I/O Extended Temperature Operation</p>
<p>Flash disk module</p> 	<p>32MB</p>
<p>Diamond-MM</p> 	<p>12-bit Analog I/O PC/104 Module</p> <p>Analog Inputs: 8 differential or 16 single-ended Analog Output: 2 x 12 bit Digital I/O: 8bit</p> <p>Counter/Timers:32-bit down counter</p>
<p>PCM-NE2000</p>	<p>IEEE 802.3 Ethernet controller board</p> <p>10Mbps operation, CSMA/CD Integrated AUI and 10Base-T interfaces Supports NE2000 and shared memory architecture 8- or 16-bit PC/104 interface with no Wait States Software configurable, "easy-to-use" network designs EPROM socket for auto-boot applications</p>

	<p>Five LEDs onboard for visual status information Network Operating System compatibility with inherent driver support for NetWare™, Lan Manager™, LANtastic™, FTP, TC/PIP and other popular software Diagnostic loopback support provides for increased testability Small size: 3.6" x 3.8" (90mm x 96mm) +5 volt only operation</p>
<p>Jupiter-MM</p> 	<p>50 Watt PC/104 DC/DC Power Supply Input Voltage: 7-30 VDC Output Voltage: +12V,-12V,+5V,-5V</p>
<p>Panel I/O board</p> 	<p>4 serial ports - DB-9M Parallel port - DB-25F 2 USB ports - Type A Ethernet - RJ-45 Cat5 Input power - DB-9M and 2.5mm circular jack Data acquisition connector - 50-pin latching header Keyboard and mouse - Mini-DIN 6</p>

Subsystem components

 <p>BasicStamp2</p>	<table border="1"> <thead> <tr> <th>Released Products</th> <th>BS2-IC</th> </tr> </thead> <tbody> <tr> <td>Package</td> <td>24-pin DIP</td> </tr> <tr> <td>Package Size (L x W x H)</td> <td>1.2" x 0.6" x 0.4"</td> </tr> <tr> <td>Environment</td> <td>0° - 70° C* (32° - 158° F) **</td> </tr> <tr> <td>Microcontroller</td> <td>Microchip PIC16C57</td> </tr> <tr> <td>Processor Speed</td> <td>20 MHz</td> </tr> <tr> <td>Program Execution Speed</td> <td>~4,000 instructions/sec.</td> </tr> <tr> <td>RAM Size</td> <td>32 Bytes (6 I/O, 26 Variable)</td> </tr> <tr> <td>Scratch Pad RAM</td> <td>N/A</td> </tr> <tr> <td>EEPROM (Program) Size</td> <td>2K Bytes, ~500 instructions</td> </tr> <tr> <td>Number of I/O pins</td> <td>16 + 2 Dedicated Serial</td> </tr> <tr> <td>Voltage Requirements</td> <td>5 - 15 vdc</td> </tr> <tr> <td>Current Draw @ 5V</td> <td>8 mA Run / 100 µA Sleep</td> </tr> <tr> <td>Source / Sink Current per I/O</td> <td>20 mA / 25 mA</td> </tr> <tr> <td>Source / Sink Current per unit</td> <td>40 mA / 50 mA per 8 I/O pins</td> </tr> <tr> <td>PBASIC Commands</td> <td>36</td> </tr> <tr> <td>PC Programming Interface</td> <td>Serial Port (9600 baud)</td> </tr> <tr> <td>DOS Text Editor</td> <td>STAMP2.EXE</td> </tr> <tr> <td>Windows Text Editor</td> <td>Stampw.exe (v1.04 and up)</td> </tr> </tbody> </table>	Released Products	BS2-IC	Package	24-pin DIP	Package Size (L x W x H)	1.2" x 0.6" x 0.4"	Environment	0° - 70° C* (32° - 158° F) **	Microcontroller	Microchip PIC16C57	Processor Speed	20 MHz	Program Execution Speed	~4,000 instructions/sec.	RAM Size	32 Bytes (6 I/O, 26 Variable)	Scratch Pad RAM	N/A	EEPROM (Program) Size	2K Bytes, ~500 instructions	Number of I/O pins	16 + 2 Dedicated Serial	Voltage Requirements	5 - 15 vdc	Current Draw @ 5V	8 mA Run / 100 µA Sleep	Source / Sink Current per I/O	20 mA / 25 mA	Source / Sink Current per unit	40 mA / 50 mA per 8 I/O pins	PBASIC Commands	36	PC Programming Interface	Serial Port (9600 baud)	DOS Text Editor	STAMP2.EXE	Windows Text Editor	Stampw.exe (v1.04 and up)
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