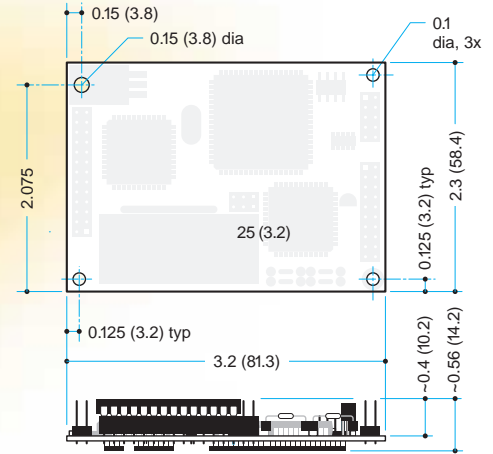
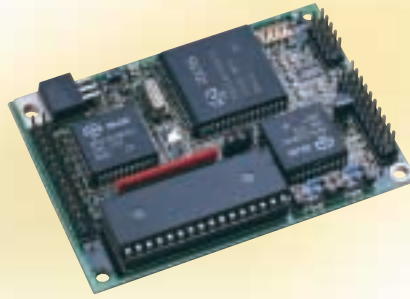




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Micro G2

BL1500



BL1500 Dimensions

- 4 analog inputs allow direct connection to a variety of analog sensors
- 24 TTL- and CMOS-compatible I/O lines and real-time clock
- 2 serial ports
- Each versatile I/O line is programmable as an input or output

The BL1500 offers unequaled computing density. Depending upon the version, the BL1500 combines 24 channels of programmable TTL- and CMOS-compatible I/O, a 4-channel A/D converter, 2 serial channels and a real-time clock, yet it measures only 3.2" x 2.3" — the size of a credit card.

Because of its small size, the BL1500 allows embedding of significant intelligence and comprehensive I/O in virtually any system or device.

The BL1500 connects via a ribbon-cable header to system I/O, simplifying setup, testing, and maintenance. The I/O lines are extremely flexible, configurable by bit as inputs or outputs. In addition, the offset and gain of 2 A/D converter channels can be modified for fine-tuning.

Programming the BL1500

Programs are developed for the BL1500 using the Dynamic C® 32 software development system described on page 6.

Micro G2 Tool Kit

The Micro G2 BL1500 Tool Kit includes a manual with schematics, programming cable, AC adapter, baseplate and 128K flash EPROM. Also includes Prototyping Board with LEDs, pushbuttons, beeper, and a thermistor. International orders do not include the AC adapter unless specifically requested.

Versions

BL1500 Full-featured SBC. Specifications stated below

BL1510 Same as BL1500 but without RTC, only 32K SRAM, includes 2 additional configurable I/O lines

BL1520 Same as BL1510 without analog inputs

BL1500 Specifications

Board Size	3.2" x 2.3" x 0.56"
Enclosure Size	N/A
Operating Temp.	-40°C to +70°C
Humidity	5–95%, non-condensing
Power Requirements	9–12 V DC, 80 mA. Linear regulator
Configurable I/O	24 by bit, 5 V TTL- and CMOS-compatible
Digital Inputs	See configurable I/O above
Digital Outputs	See configurable I/O above
Analog Inputs	Two, 12-bit conditioned, default input range is 0–10 V. Two, 12-bit, unconditioned, 0–2.5 V
Analog Outputs	No
Resistance Meas. Input	No
Processor	Z180 at 9.216 MHz
SRAM	128K, surface mount (supports up to 512K)
EPROM	Supports up to 512K. See <i>Options and Upgrades</i> above
Flash EPROM*	Supports up to 256K. See <i>Options and Upgrades</i> above
Counters	Software-implementable
Serial Ports	1 RS-232 (with RTS/CTS handshake) and 1 RS-485 (two-wire)
Serial Rate	Selected baud rates up to 57,600 bps
Watchdog/Supervisor	Yes
Time/Date Clock	Yes
Backup Battery	Connection for user-supplied battery
Keypad and LCD	Supported on digital I/O lines
Expansion Port	No

*Flash memory replaces standard EPROM.

Options and Upgrades

SIB2. Allows programming through the special programming port, leaving serial channels available. Includes programming cable

SRAM. 512K. Factory installed

EPROM. 128K and 512K. Not installed

Flash EPROM. 128K and 256K. Factory installed

Baseplate. For mounting and additional heat sinking