



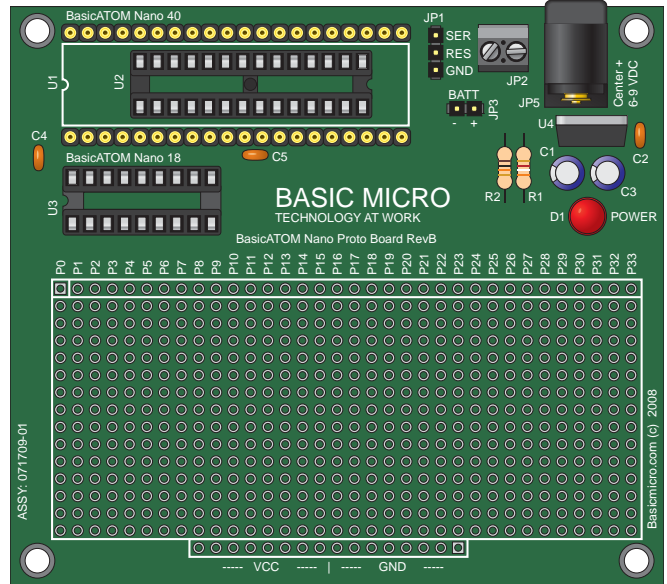
BASIC MICRO

TECHNOLOGY AT WORK

**BasicATOM Nano Prototyping Board
Data Sheet**

Feature Overview:

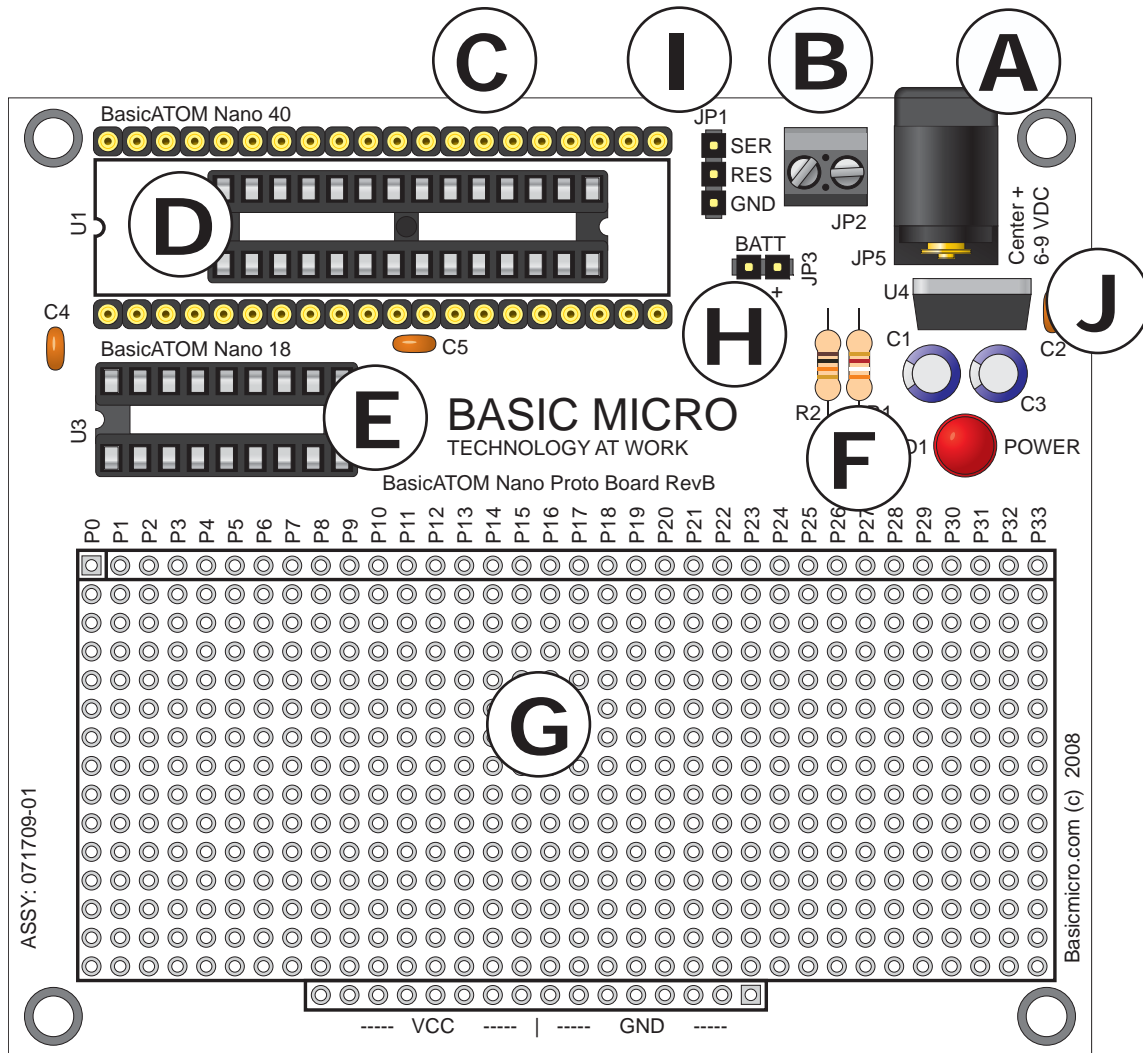
- Prototyping Area
- 2.1mm Center Positive Power
- 3.5mm Screw Terminal Power
- Sockets for BasicATOM Nano Modules
- Battery Connectors
- Low Drop Out Voltage Regulator
- 3 Pin Programming Header
- All Features Easily Accessible



Basic Description

The BasicATOM Nano Prototyping board is designed to be a full experimentation center for the BasicATOM Nano. The prototyping board includes 3 different power connectors. Traditional 2.1mm center positive barrel connector, 3.5 screw terminal, 2-pin battery connector. The BasicATOM Nano Prototyping Board is low cost and easy to use making it the ideal platform for your next project.

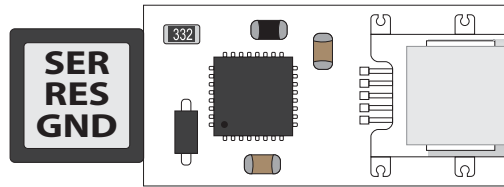
Hardware Overview:



- A:** 2.1mm Power Jack, Center Positive. 6 to 9VDC.
- B:** 3.5mm Screw Terminal.
- C:** 40 Pin BasicATOM Nano Socket.
- D:** 28 Pin BasicATOM Nano Socket.
- E:** 18 Pin BasicATOM Nano Socket.
- F:** Power LED.
- G:** Prototyping Area.
- H:** 2 Pin Battery Connector.
- I:** 3 Pin Programming Header.
- J:** 5VDC Low Voltage Regulator.

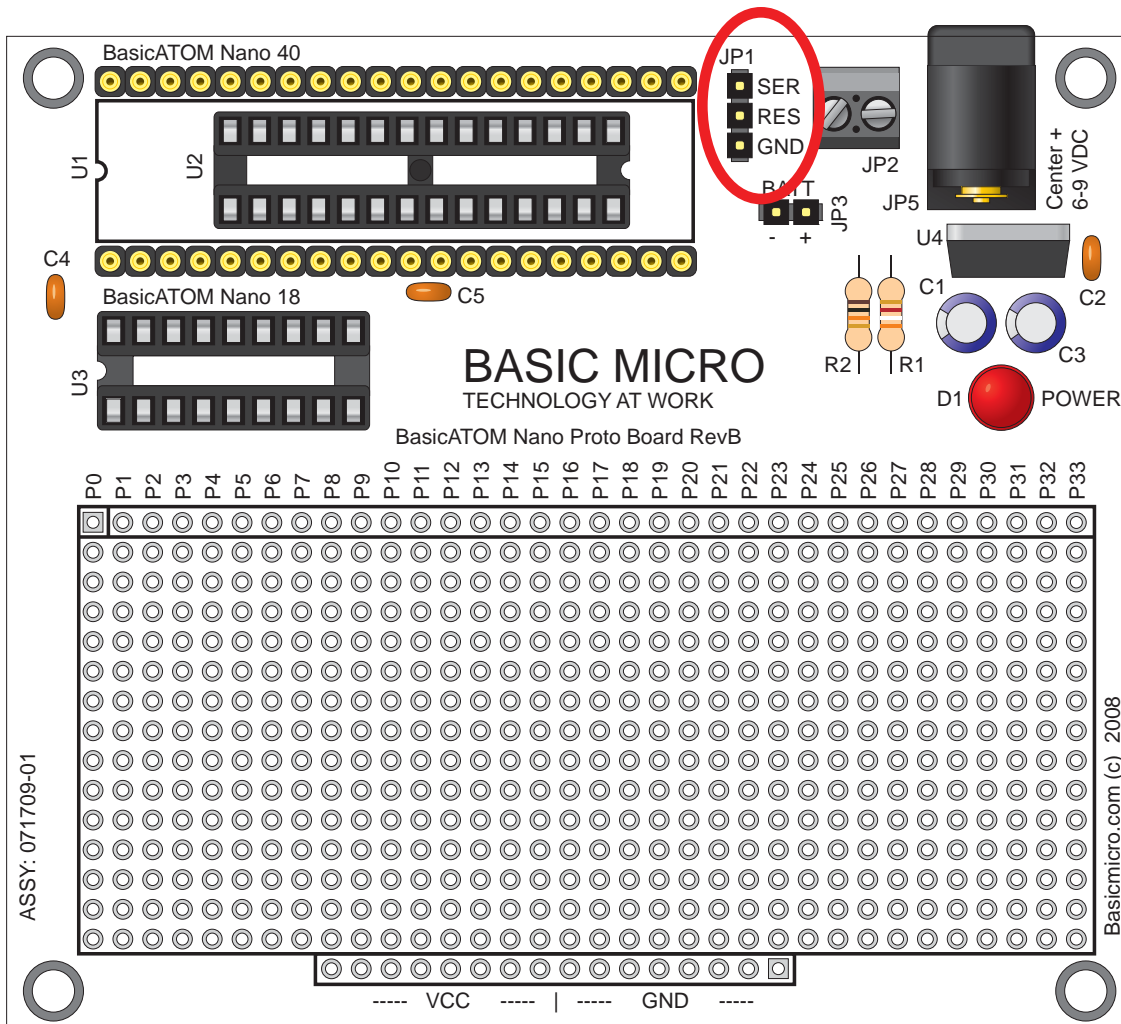
Nano USB2Serial Adapter:

Connect the USB cable to the Nano Programmer. Install the Basic Micro com port drivers which can be downloaded from the basicmicro.com website.



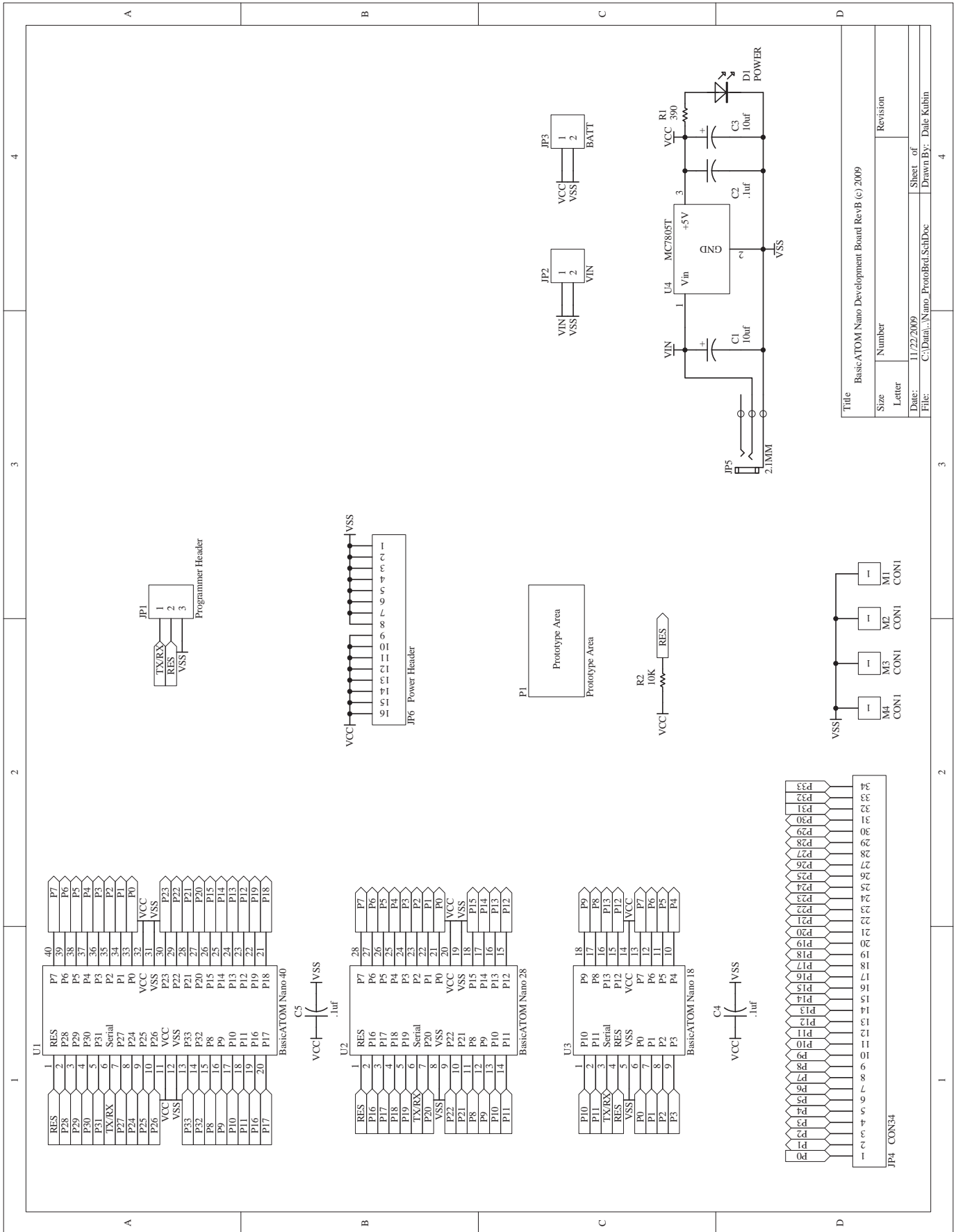
Programming a Nano:

Insert this Nano chip into the appropriate socket. Only one Nano can be installed at any given time. Note the correct orientation of the Nano. If the Nano is installed backwards damage will result. The pin outs of the Nano USB2Serial Adapter are labeled and should be aligned to match the 3-pin header (JP1) labels on the Nano Prototyping board. Apply power to the Nano Prototyping board. Run Basic Micro Studio which can be downloaded from the basicmicro.com website. Select the com port, from the drop down menu toward the top of the screen, the Nano Programmer was installed on. Then select the chip family type (BasicAtom Nano) then select the type of Nano installed in the drop downs. You are now ready to program your Nano. If the IDE doesn't detect the Nano, check the com port you selected.



Electrical Characteristics

Characteristic	Value (Units)
VIN Range (min - max)	6 – 9VDC
Current Draw (Idle)	30 mA
Current Draw (Max)	1000 mA



Warranty

Basic Micro warrants its products against defects in material and workmanship for a period of 90 days. If a defect is discovered, Basic Micro will, at our discretion, repair, replace, or refund the purchase price of the product in question. Contact us at support@basicmicro.com. No returns will be accepted without the proper authorization.

Copyrights and Trademarks

Copyright© 2009 by Basic Micro, Inc. All rights reserved. PICmicro® is a trademark of Microchip Technology, Inc. The Basic Atom and Basic Micro are registered trademarks of Basic Micro Inc. Other trademarks mentioned are registered trademarks of their respective holders.

Disclaimer

Basic Micro cannot be held responsible for any incidental, or consequential damages resulting from use of products manufactured or sold by Basic Micro or its distributors. No products from Basic Micro should be used in any medical devices and/or medical situations. No product should be used in a life support situation.

Contacts

Email: sales@basicmicro.com
Tech support: support@basicmicro.com
Web: <http://www.basicmicro.com>

Discussion List

A web based discussion board is maintained at <http://www.basicmicro.com>.

Technical Support

Technical support is made available by sending an email to support@basicmicro.com. All email will be answered within 48 hours. All general syntax and programming questions, unless deemed to be a software issue, will be referred to the on-line discussion forums.