Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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SN171-ProtoBoard

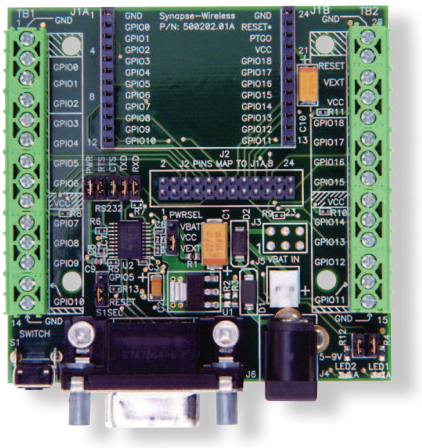
Prototyping Board

Power Up Your Prototyping

With the SN171 – ProtoBoard™, Synapse makes it even easier to put the SNAP Engine™ to work in your application. Whether you're developing rapid prototypes or building a sophisticated finished assembly, the ProtoBoard provides a solid platform for embedded SNAP® wireless applications.

Our intent with the ProtoBoard is to not get in your way. To that end, the ProtoBoard has jumpers that enable all peripherals to be fully disabled — freeing all pins of the SNAP Engine for complete access by your application. Like all SNAP Nodes, a SNAP Engine on the ProtoBoard may serve as the SNAP Bridge for connection to Portal® or a SNAPconnect.

It is also capable of true low-power operation, achieving sleep states as low as 0.3 µA.



Product Highlights

- Compatible with all Synapse SNAP Engine modules.
- RS-232 port with full hardware flow control (UART1) fully jumper selectable, can be completely "removed" from system.
- 2 status LEDs, yellow and green — can be disabled by jumper.
- Push-button switch, can be jumpered to Reset, GPIO, or disabled.
- Battery connector or power regulator option.
- Terminal blocks bring out the SNAP Engine pins and Vext (supply power).
- 2x12, 2mm pitch header for ribbon — cable access to all SNAP Engine pins.

To learn more, visit synapse-wireless.com or call 877-982-7888

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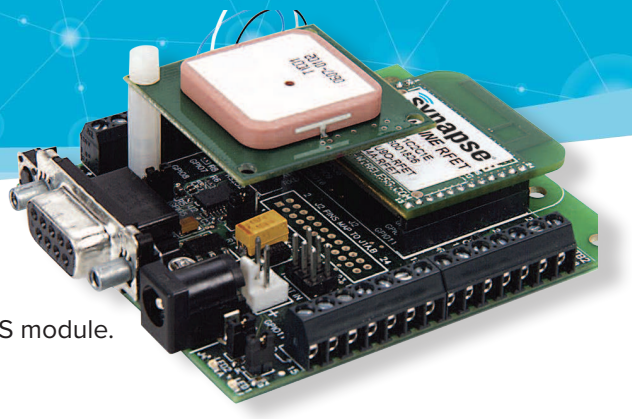
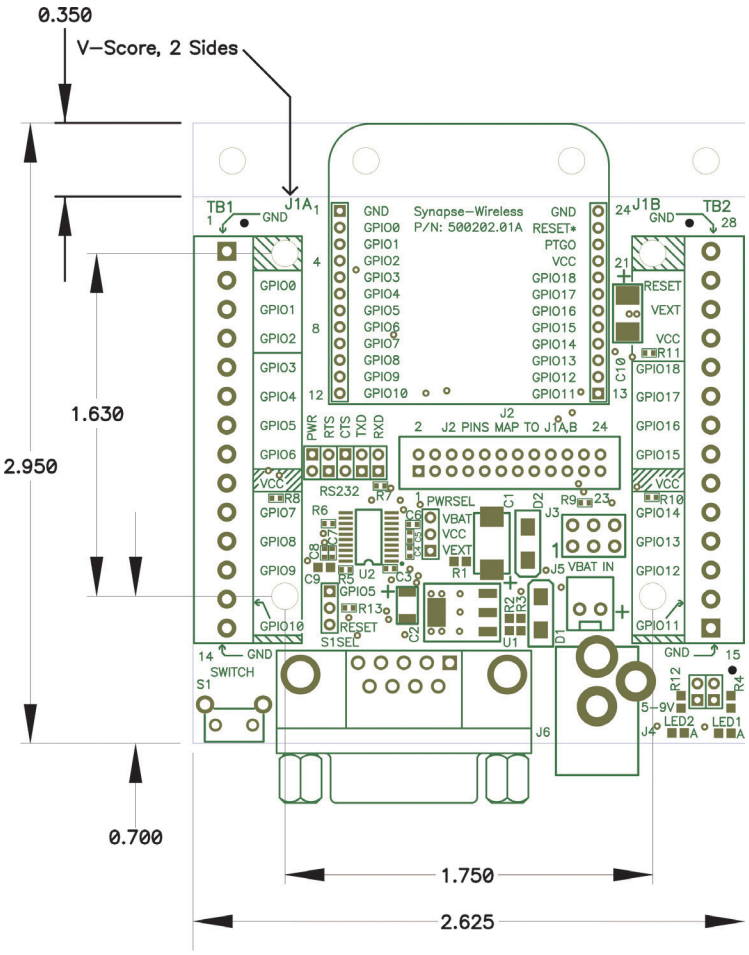
Synapse® Proven Solutions for the Internet of Things



Typical Application:
Prototyping a remote GPS module.



Part Selection

Part No.	SN171GG-NR

Terminal Blocks (16–26 AWG)

1	TB1-1	GND
2	TB1-2	GPIO-0
3	TB1-3	GPIO-1
4	TB1-4	GPIO-2
5	TB1-5	GPIO-3
6	TB1-6	GPIO-4
7	TB1-7	GPIO-5
8	TB1-8	GPIO-6
9	TB1-9	Vcc
10	TB1-10	GPIO-7
11	TB1-11	GPIO-8
12	TB1-12	GPIO-9
13	TB1-13	GPIO-10
14	TB1-14	GND
15	TB2-1	GND
16	TB2-2	GPIO-11
17	TB2-3	GPIO-12
18	TB2-4	GPIO-13
19	TB2-5	GPIO-14
20	TB2-6	Vcc
21	TB2-7	GPIO-15
22	TB2-8	GPIO-16
23	TB2-9	GPIO-17
24	TB2-10	GPIO-18
25	TB2-11	Vcc
26	TB2-12	Vext
27	TB2-13	Reset
28	TB2-14	GND

ProtoBoard Jumpers

RS-232

PWR	Power to the RS232 Line Driver (UART 1)
CTS	Flow control output (GPIO 9)
RTS	Flow control input (GPIO 10)
TXD	Transmit output (GPIO 8)
RXD	Receive input (GPIO 7)

Power Supply

VBAT	Powered using battery pack (2.0 – 3.4V)
VEXT	Powered using external supply (5 – 9V)

Switch

GPIO5	Pushbutton connected to GPIO5
RESET	Pushbutton connected to RFE reset

LEDs

LED1	Enable green LED (GPIO 1)
LED2	Enable yellow LED (GPIO 2)

External 5v - 9v DC power jack (2.1 mm)

POSITIVE
NEGATIVE