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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.

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SN173 ProtoBoard

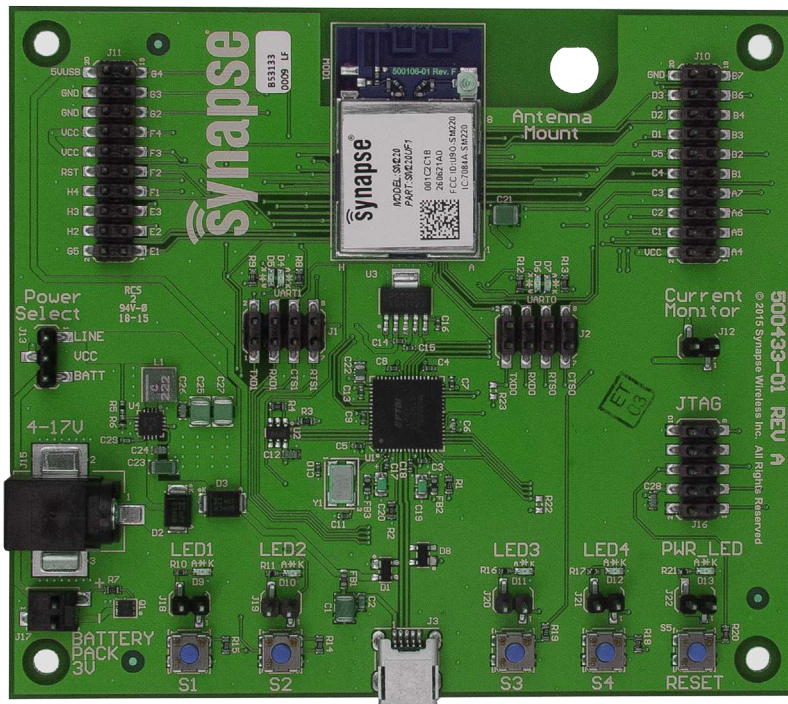
Prototyping Board



With the SN173 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 allow all peripherals to be fully disabled – freeing all pins on 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 SNAPconnect.

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



Features

- SM220 surface mount SNAP Engine on the board.
- 4 status LEDs and 1 power indicator LED - can be disabled by jumper.
- 4 GPIO push-button switches and a RESET push-button switch.
- 3 powering options – 2.0 - 3.6V battery pack, USB, or 4 - 17V barrel connector.
- 32 GPIOs brought out to two 20 pin headers.
- Header access to measure current draw of the module.
- Serial interface (UART 0 and UART1) through mini-B USB connector. Jumpers to disconnect the serial interface for power saving applications.
- Mount for external antenna connection to u.FL.

powered by 

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

Pin Headers

Pin #	J10 Header	Desc	Pin #	J11 Header	Desc
1	J10-1	GPIO_A4	1	J11-1	GPIO_E1
2	J10-2	VCC	2	J11-2	GPIO_G5
3	J10-3	GPIO_A5	3	J11-3	GPIO_E2
4	J10-4	GPIO_C1	4	J11-4	GPIO_H2
5	J10-5	GPIO_A6	5	J11-5	GPIO_E3
6	J10-6	GPIO_C2	6	J11-6	GPIO_H3
7	J10-7	GPIO_A7	7	J11-7	GPIO_F1
8	J10-8	GPIO_C3	8	J11-8	GPIO_H4
9	J10-9	GPIO_B1	9	J11-9	GPIO_F2
10	J10-10	GPIO_C4	10	J11-10	RESET
11	J10-11	GPIO_B2	11	J11-11	GPIO_F3
12	J10-12	GPIO_C5	12	J11-12	VCC
13	J10-13	GPIO_B3	13	J11-13	GPIO_F4
14	J10-14	GPIO_D1	14	J11-14	VCC
15	J10-15	GPIO_B4	15	J11-15	GPIO_G2
16	J10-16	GPIO_D2	16	J11-16	GND
17	J10-17	GPIO_B6	17	J11-17	GPIO_G3
18	J10-18	GPIO_D3	18	J11-18	GND
19	J10-19	GPIO_B7	19	J11-19	GPIO_G4
20	J10-20	GND	20	J11-20	5VUSB

Recommended Power Supply

Manufacturer	Part Number	Description
Artesyn Embedded Technologies	DA12-120MP-M2.1	AC/DC WALL MOUNT ADAPTER 12V 12W
Artesyn Embedded Technologies	DA-US	PLUG AC US 2 PRONG

ProtoBoard Jumpers

USB Serial Interface (UART0)

J2 (1-2) TXD (GPIO_C1)

J2 (3-4) RXD (GPIO_C2)

J2 (5-6) RTS (GPIO_B3)

J2 (7-8) CTS (GPIO_C3)

USB Serial Interface (UART1)

J1 (1-2) TXD (GPIO_G4)

J1 (3-4) RXD (GPIO_H4)

J1 (5-6) RTS (GPIO_C5)

J1 (7-8) CTS (GPIO_G3)

Power Select

LINE Powered using either external supply (4–17V) via external DC power jack (2.1mm) or Mini-USB (5V).

BATT Powered using battery pack (2.0 - 3.6V)



Note: The SN173 does not include a power supply.

LEDs

J18 Enable LED1 (GPIO_D2)

J19 Enable LED2 (GPIO_D1)

J20 Enable LED3 (GPIO_B2)

J21 Enable LED4 (GPIO_F4)

J22 Enable Power Indicator LED

Current Measurement

J12 Jumper to monitor current

Buttons

S1 GPIO_C3

S2 GPIO_F1

S3 GPIO_F2

S4 GPIO_F3