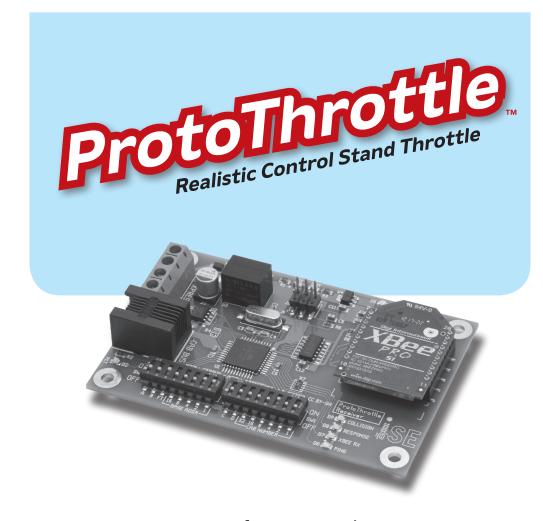


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Receiver for NCE Cab Bus and Lenz XpressNet



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• \$SE

Power Status LEDs

Green (D1, 5V)

Function

Green (D3, 3.3V) 3.3V power is on

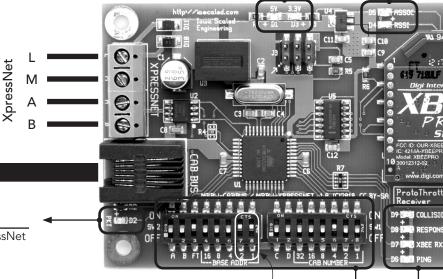
5V power is on

LED

Radio Module Status LEDs

LED	Function
Red (D5, ASSOC)	(Blinking) Radio module is working
V II (D.4 DCCI)	DE L I II . II . II

Yellow (D4, RSSI) RF data is being received by the radio module



Packet Status LEDs

LED Function

Orange (D2, PKT) Cab Bus or XpressNet is active

Cab Bus

Receiver Status LEDs

LED	Function
Red (D9, COLLISION)	(Blinking) Another
	receiver is using the
	same Base Address;
	(Solid) Another Cab
	Bus or XpressNet
	device is using the
	same Cab Number
Blue (D8, RESPONSE)	A command from a
	ProtoThrottle was
	successfully sent over
	Cab Bus or XpressNet
Blue (D7, XBEE RX)	A valid ProtoThrottle
	command was
	received by the
	radio module
Blue (D6, PING)	The command station
	is actively polling this
	receiver's Cab Number

Throttle screen shown above with correct address entered. (See page 16 in manual.)

BASE ADR

03

In this example, Base Addr. switches 2 + 1 are active which totals a Base Addr. = 3.

Note: the throttle and receiver ship with a default base address of zero (0). Any address will work as long as both the throttle and receiver are configured to the same value. The only time to change it would be to avoid conflicts with other ProtoThrottle systems nearby.

Getting Started

Step 1: Configure the DIP Switches

Step 2: Connect to the command station

Step 3: Configure the ProtoThrottle

Have Fun!

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DIP Switch SW2 Configuration Settings

Switch	Function
A	ON = Lenz XpressNet
	OFF = Cab Bus
В	Unused
FT	ON = Broadcast NCE fast
	clock data
	OFF = Do not transmit fast
	clock data

Base Address: Set the radio base address of this receiver. Add the value(s) of the switches that are in the ON position to get the address. Program this value into the ProtoThrottle using the COMM CFG – BASE ADR menu. The base address should not be the same on any receivers within radio range of each other.

Example shown above: 2 + 1 = 3

If there is a base address conflict, the Collision LED (D9) will blink red.

DIP Switch SW1 Configuration Settings

Unused

Switch Function C Unused

Cab Number: Set the Cab Bus cab number, or XpressNet address, of this receiver. Add the value(s) of the switches that are in the ON position to get the address. The cab number or address should not be the same as any other device connected to the command station.

Example shown above: 4
If there is a cab number or address conflict, the Collision LED (D9) will light solid red.