

Model Match

Specify the 'Receiver' number in OpenTX/EdgeTX model setup page and turn on the 'Model Match' in the ExpressLRS Lua script for that model. 'Model Match' is between 0 and 63 inclusive.

Enable Model Match SAVE

PWM Output

Set PWM output mode and failsafe positions.

- **Output:** Receiver output pin
- **Mode:** Output frequency or binary On/Off mode
- **Input:** Input channel from the handset
- **Invert:** Invert input channel position
- **750us:** Use half pulse width (494-1006us) with center 750us instead of 988-2012us
- **Failsafe:** Absolute position to set the servo on failsafe
 - Does not use "Invert" flag
 - Value will be halved if "750us" flag is set
 - Will be converted to binary for "On/Off" mode (>1500us = HIGH)

Output	Mode	Input	Invert?	750us?	Failsafe
1	50Hz	▼ ch4 ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500
2	50Hz	▼ ch2 ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500
3	50Hz	▼ ch3 ▼	<input type="checkbox"/>	<input type="checkbox"/>	988
4	50Hz	▼ ch1 ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500
5	50Hz	▼ ch5 (AUX1) ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500
6	50Hz	▼ ch6 (AUX2) ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500
7	50Hz	▼ ch7 (AUX3) ▼	<input type="checkbox"/>	<input type="checkbox"/>	1500

CRSF Serial Pins

RX pin

Pin used to receive CRSF signal from the handset

TX pin

Pin used to transmit CRSF telemetry to the handset (may be the same as the RX PIN)

Radio Chip Pins & Options

BUSY pin

GPIO Input connected to SX128x busy pin

DIO0 pin

Unused on SX128x, Interrupt pin for SX127x

DIO1 pin

Interrupt pin for SX128x

DIO2 pin

Unused on SX128x and 127x

MISO pin

MISO connected to (possibly) multiple SX1280/127x

MOSI pin

MOSI connected to (possibly) multiple SX1280/127x

NSS pin

Chip select pin for first SX1280/127x

RST pin

Reset pin connected to (possibly) multiple SX1280/127x

SCK pin

Clock pin connected to (possibly) multiple SX1280/127x

BUSY_2 pin

Busy pin for second SX1280

DIO1_2 pin

Interrupt pin for second SX1280

NSS_2 pin

Chip select pin for second SX1280

DCDC enabled

Use the SX1280 DC-DC converter rather than LDO voltage regulator (15uH inductor must be present)

RFO_HF enabled

SX127x PA to use, either the RFO_HF or PA_BOOST (depends on circuit design)

Radio Antenna

CTRL pin

Pin connected to Antenna select pin on power amplifier

CTRL_COMPL pin

Inverted CTRL for devices using antenna selectors that need separate pins for A/B selection

Radio Power

PA enable pin

Enable the power amplifier (active high)

RXEN pin

Enable RX mode LNA (active high)

TXEN pin

Enable TX mode PA (active high)

RXEN_2 pin

Enable RX mode LNA on second SX1280 (active high)

TXEN_2 pin

Enable TX mode PA on second SX1280 (active high)

Min Power

Minimum selectable power output

High Power

Highest selectable power output (if option for higher power is NOT enabled)

Max Power

Absolute maximum selectable power output (only available if 'higher power' option is enabled)

Default Power

Default power output when resetting or first flashing a module

Power Level control

How the power level is set

Level Value(s)

Comma-separated list of values that set the power output

Radio Power Detection

PDET pin

Analog input (up to 1.1V) connected to 'power detect' pin on PA for adjustment of the power output

Intercept

Intercept and Slope are used together to calculate the dBm from the measured mV on the PDET pin

Slope

$\text{dBm} = \text{mV} * \text{slope} + \text{intercept}$, this is then used to adjust the actual output power accordingly

Mood Lighting

RGB LED pin

Signal pin for WS2812 RGB LED or LED strip

RGB LED is GRB

Most WS2812 RGB LEDs are actually GRB

RGB indexes for Status

Indexes into the "string" of RGB LEDs (if empty then only LED at 0 is used)

RGB indexes for VTX Status

Indexes into the "string" of RGB LEDs (if empty then no VTX status)

RGB indexes for Boot animation

Indexes into the "string" of RGB LEDs (if empty status indexes are used)

Power Level control	<input type="text" value="via SEMTECH"/>	How the power level is set
Level Value(s)	<input type="text" value="13"/>	Comma-separated list of values that set the power output
Radio Power Detection		
PDET pin	<input type="text"/>	Analog input (up to 1.1V) connected to 'power detect' pin on PA for adjustment of the power output
Intercept	<input type="text"/>	Intercept and Slope are used together to calculate the dBm from the measured mV on the PDET pin
Slope	<input type="text"/>	$dBm = mV * slope + intercept$, this is then used to adjust the actual output power accordingly
Mood Lighting		
RGB LED pin	<input type="text"/>	Signal pin for WS2812 RGB LED or LED strip
RGB LED is GRB	<input type="checkbox"/>	Most WS2812 RGB LEDs are actually GRB
RGB indexes for Status	<input type="text"/>	Indexes into the "string" of RGB LEDs (if empty then only LED at 0 is used)
RGB indexes for VTX Status	<input type="text"/>	Indexes into the "string" of RGB LEDs (if empty then no VTX status)
RGB indexes for Boot animation	<input type="text"/>	Indexes into the "string" of RGB LEDs (if empty status indexes are used)
LED pin	<input type="text" value="16"/>	Only use when only a single LED is used
Red LED pin	<input type="text"/>	If there are multiple LEDs, then this is the pin for the RED LED
Red LED inverted	<input type="checkbox"/>	LEDs are active LOW unless this is checked
Green LED pin	<input type="text"/>	If there is a GREEN LED as well as RED above
Green LED inverted	<input type="checkbox"/>	Check if the LED is active HIGH
Blue LED pin	<input type="text"/>	Pin for a 3rd, BLUE, LED!
Blue LED inverted	<input type="checkbox"/>	Check if the LED is active HIGH
Button(s)		
Button 1 pin	<input type="text"/>	Single/first (active low) button
Button 1 RGB Index	<input type="text"/>	Index of button LED in RGB string, leave empty for no RGB LED
Button 2 pin	<input type="text"/>	Second (active low) button
Button 2 RGB Index	<input type="text"/>	Index of button LED in RGB string, leave empty for no RGB LED
PWM		
PWM output pins	<input type="text" value="0,1,3,9,10,5,16"/>	Comma-separated list of pins used for PWM output
VBat		
VBat pin	<input type="text" value="17"/>	Analog input pin for reading VBAT voltage (1V max on 8285, 3.3V max on ESP32)
VBat offset	<input type="text" value="12"/>	Offset and scale are used together with the analog pin to calculate the voltage
VBat scale	<input type="text" value="310"/>	$voltage = (analog - offset) / scale$
SPI VTX		
RF amp PWM pin	<input type="text"/>	Set the power output level of the VTX PA (value is calculated based on power and frequency using VPD interpolation values)
RF amp VPD pin	<input type="text"/>	Analog input for VPD (power detect) from VTX PA
RF amp VREF pin	<input type="text"/>	Active high enable pin the the VTX PA VREF (voltage reference)
SPI NSS pin	<input type="text"/>	Chip select for RTC6705 VTx (leave undefined if sharing Radio SPI bus)
SPI SCK pin	<input type="text"/>	Clock pin on RTC6705 VTx (leave undefined if sharing Radio SPI bus)
SPI MISO pin	<input type="text"/>	MISO pin on RTC6705 VTx (leave undefined if sharing Radio SPI bus)
SPI MOSI pin	<input type="text"/>	MOSI pin on RTC6705 VTx (leave undefined if sharing Radio SPI bus)
25mW VPD interpolation values	<input type="text"/>	4 values for 5650, 5750, 5850, 5950 frequencies at 25mW
100mW VPD interpolation values	<input type="text"/>	4 values for 5650, 5750, 5850, 5950 frequencies at 100mW
I2C		
SCL pin	<input type="text"/>	I2C clock pin used to communicate with I2C devices
SDA pin	<input type="text"/>	I2C data pin used to communicate with I2C devices

SAVE TARGET CONFIGURATION