

SmaRT CPCB (Chest Pack Console Box)

Features

- ✓ Two Dual-Axis Joysticks with onboard Auxiliary switches
- ✓ Toggle switches, potentiometers, selector switches, and/or pushbutton options
- ✓ Push/Pull Machine Stop
- ✓ 2.4 GHz @ 100 mW Operation, optional 900 MHz
- ✓ Optional Eight-Character LED Display
- ✓ Four Diagnostic and Four Configurable LEDs
- ✓ Optional Umbilical Connection Available
- ✓ Operates Using Two C-Cell Batteries
- ✓ Molded chest plate for operator comfort

The SmaRT Chest Pack Console Box (CPCB) communicates with and controls SmaRT base units using the 2.4 GHz (2405–2480 MHz @ 100 mW) frequency range. 900 MHz (906–924 MHz @ 10 mW) option also available. Using Channel-Hopping Direct Sequence Spread Spectrum (CH DSSS) technology, the broadcast frequency offers a generous control distance in congested radio environments. The rugged enclosure and water-resistant components ensure reliable operation in harsh weather environments, operating in temperatures as low as -20°C to a maximum of 55°C (-4°F to 131°F). The SmaRT CPCB offers a variety of joystick and switch options that are factory configured upon ordering.



Specifications

Power

Operating Voltage	1.9 to 3.2 VDC
Batteries	Two C-cell batteries
Option	Charger and rechargeable battery
Low V Shutdown	$\approx 1.6\text{V}$
Inactivity Shutdown	4-Minutes typical (programmable)

Environment

Operating Temp	-20° to $+55^{\circ}\text{C}$ (-4° to $+131^{\circ}\text{F}$)
Storage Temp	-20° to $+85^{\circ}\text{C}$ (-4° to 185°F)
Humidity	0 to 100%

Indicators (LEDs)

TX (Green)	Solid – transmitting, switch active Flashing – transmitting, no switch active
RX (Amber)	Flashing – receiving, no output active
ERR (Red)	Indicates error
BATT (Amber)	Blinking – low battery indication
LED Option	Up to four additional custom programmed
Display Option	8-character LED

Control Switches

Joysticks	Customizable
Toggles	Up to 11 two- or three-position momentary or maintained
Options	Pushbuttons, potentiometers, rotary switches
Stop	Pull-up/Push-down
Umbilical	Optional tether cable backup

Enclosure

Material	Durable plastic
Dimensions	11.2 x 5.12 x 7.3 inches (284.5 mm x 130 mm x 185.4 mm)
Total Weight	3.2 lbs (1.5 kg)

Radio

Frequency	2405 MHz to 2480 MHz @ 100 mW (906 MHz to 924 MHz @ 10 mW option available)
License	None required
Modulation	Channel-Hopping DSSS
Antenna	Internal

