

# Novak GTB 4-CELL

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Brushless motors are getting more common in 12th scale racing. The problem with most brushless esc are that they have a large heat sink with a fan mounted on top which could be a big problem with the bodies used. most bodies have very low profile where the esc normally is placed. Now Novak have created the GTB 4-Cell Programmable Racing Brushless/Brush ESC which a 30% smaller height profile as to the normal GTB. The GTB 4-Cell Programmable Racing Brushless/Brush ESC has also 16-gauge wire, which helps lighten the ESC's weight by 25%. Other differences from the original #1710 GTB include a replaceable input harness and switch harness, both of which are "re-solderable" for retaining the ESC's low profile and for added convenience.

This versatile ESC is compatible with all Novak 540-size sensored brushless motors, and has no brushed motor limit. Like all of Novak's speed controls, the GTB 4-Cell is packed full of features. A user-friendly interface along with 4 different color status LEDs make programming the GTB extremely easy. The brushless mode has 4 adjustable parameters, including Minimum Brake, Drag Brake, Deadband, and Minimum Drive. The brushed mode is fully programmable with all of the adjustments of the brushless mode, plus adjustable Drive Frequency. The GTB also uses exclusive lightweight MOSFET technology, which have the lowest "RDS On" value, and which allows the speed control to have the highest power density.

## GTB 4-CELL ESC FEATURES

- Includes six throttle profiles specifically designed for 4-cell racing
- 25% lighter and 30% smaller height profile than the #1710 GTB ESC
- User-friendly programming interface with 4 status LEDs
- Novak's One-Touch Set-Up (still the easiest)
- Gold-Plated PCB Direct-Solder Wiring Tabs
- Re-solderable user-replaceable input harness
- Re-solderable user-replaceable switch harness
- Thermal Overload Protection
- Water-resistant case
- Radio-Priority Circuitry
- Polar Drive Circuitry
- 4 Adjustable Parameters (5 in Brushed Mode)

- • • \* Minimum Brake
- • • \* Drag Brake
- • • \* Dead Band
- • • \* Minimum Drive
- • • \* Drive Frequency (In Brushed Mode Only)

## GTB 4-CELL ESC SPECIFICATIONS

- Forward/Reverse: Forward and Brake (1 Brushless Profile w/Reverse)
- Input Voltage: 4 Ni-Cd/Ni-MH cells (1.2V/cell)
- Footprint: 1.16" x 1.49" (29.5 x 37.8 mm)
- Height: 0.61" (15.5 mm)
- Weight: 1.01 oz. (28.5 g) -- with heatsinks and without wires
- Motor Limit: 3.5T brushless motor; No brushed motor limit
- On-Resistance: 0.00040 ohms (brushless)\*, 0.00013 ohms (brushed)
- Rated Current: 540 amps per phase (brushless)\*, 1620 amps (brushed)
- Braking Current: 540 amps per phase (brushless), 1620 amps (brushed)
- BEC: 6.0 volt\*\*/3.0 amp
- Discrete Steps: 1024 Forward; 1024 Reverse
- Power Wires: 16-Gauge
- Battery Plug: None
- Motor Plug: None
- Status LEDs: 4