



TGTIO 01 – Pyrotechnic control interface

TGTIO 01 is UAV Navigation’s most advanced peripheral control board for target drones. It delivers two different functionalities,

- Provide Servo power (down to 6 Volts)
- Control pyrotechnical devices.

The TGTIO01 can control two sequences of pyrotechnic flares (typically smoke and IR) of up to 16 elements each, providing 5.5V for servo supply, control engine shutdown and parachute deployment.

Each pyrotechnic output is pulsed four times for periods of 100ms to guarantee pyrotechnic firing while minimizing current draw on pyro short failures.

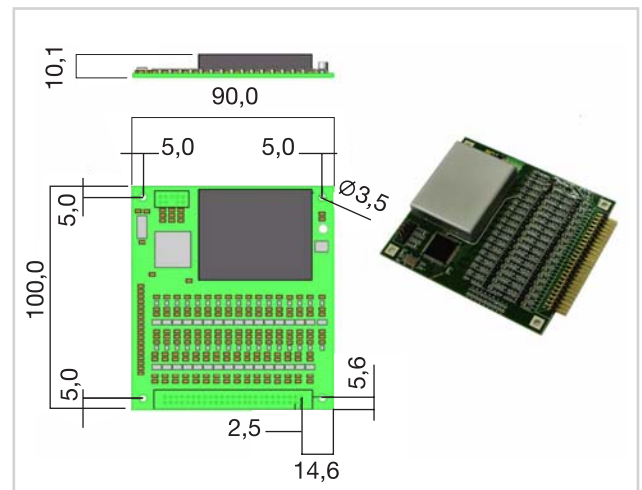
It can be supplied as an OEM board, or enclosed in a ruggedized case that features mil spec connectors.



TGTIO 01 – Technical specifications

INPUTS

PWM input ranges	1 ms to 2 ms high, 50Hz
Sequencer triggers	1.75 ms high
Sequencer reset	1.25 ms high
Engine kill/parachute trigger	1.55 ms high
Engine kill/parachute trigger	1.45 ms high



OUTPUTS

Sequencer outputs	four 100ms pulses
Sequencer outputs drive	2 A
Engine kill drive	-200 mA
Parachute drive	1 A continuous, 3 A peak
Servo supply voltage	5.5 V
Servo supply current	3.3 A continuous

SUPPLY

Supply voltage range	9 to 15 V
Idle current consumption	200 mA
Engine kill drive	-200 mA
Parachute drive	1 A continuous, 3 A peak

