

Exhibit 4

<http://www.kantronics.com/products/talon.html#specs>

Talon Specifications

Modem Specifications	
Operating modes and protocols	Transparent, TUP, Connected/Unconnected, Packet (AX.25L2), KISS, HOST, POLL
Interface	EIA/TIA 232 RS-232 compatible interface
Over the air data rate	9600 bps (4800 baud) scramble and FEC user selectable
Modulation	QLFSK
Port speed	19.2 k
Operating voltage	8 - 15 V dc @ 3 A max
Current drain	Transmit: 2.5 A @ 13.8 V dc Receive: 100 mA @ 13.8 V dc
Certifications	FCC and IC type accepted
GPS Specifications (for optional GPS receiver)	
General	L1 (1575.42 MHz) frequency, C/A code 8 channel, continuous tracking receiver, 32 correlators
Accuracy	Horizontal: <6 m (50%), <9 m (90%) Altitude: <11 m (50%), <18 m (90%) Velocity: 0.06 m/s PPS: ± 95 ns
Acquisition Time	Reacquisition: <2 s (90%) Hot start: <14 s (50%), <18 s (90%) Warm start: <38 s (50%), <45 s (90%) Cold start: <90 s (50%), <170 s (90%) Cold start requires no initialization. Warm start implies last position, time and almanac are saved by backup power. Hot start implies ephemeris also saved.
Dynamics	Acceleration: 4 g (39.2 m/s ²) Motional jerk: 20 m/s ³
Operational limits	Altitude: <18000 m or velocity <515 m/s
I/O Board Specifications (for optional Telemetry I/O board)	
Analog inputs	Eight buffered (hi impedance) inputs, 0 V to +5 V. Jumper selectable 249 Ohm, 1% resistor allows use with 2-wire or 3-wire 0 to 20 mA dc input. Buffer/protection op amps limit voltage to the 10 bit A/D converter to 4.950 V.
Discrete inputs	Four CMOS logic level inputs. Inputs are pulled hi in the absences of input signal, and may be activated by a low impedance path to ground (such as a switch, relay contact, open collect BJT, open drain FET, or optocoupler output).

Analog outputs	Four outputs, 0 to 4.995 V dc into 10k minimum load<
Discrete outputs	Four open-drain FET outputs, will switch up to 50 V dc and up to 115 mA.
Diagnostic Port	RS-232. May be used only if GPS option is not also installed.
Radio Specifications	
General	Integral transceiver
Transmitter	Meets FCC part 90 requirements
Transmitter output power	Programmable up to 6 W
Duty Cycle	50% (30 s TX max) @ 6 W
Receiver sensitivity	1 x 10 ⁻⁶ BER @ -105 dBm
Frequency range	Talon UDC VHF: 136 - 162, 148 - 174 MHz Talon UDC UHF: 400 - 420, 450 - 470 MHz
Frequency stability	1.55 PPM
Carrier power	<1 W to 6 W
Carrier power accuracy	+0 / -0.7 dBm
RF output Imp.	50 ohms
Frequency steps	12.5 kHz
RX adjacent Chl. (EIA)	-60 dB @ 12.5 kHz
Radio status indication	PWR. TX, RX, 3 programmable
Environmental Specifications	
Operating temperature	-30 to +60 degrees Celsius
Humidity	Up to 95% RH non-condensing
Mechanical Specifications & Connectors	
Enclosure	Formed aluminum
Dimensions (H×W×D)	2.4"×6.5"×4.95" (61 mm × 165 mm × 126 mm)
Weight (mass)	1.5 lbs (0.68 kg)
GPS Antenna Connection	MCX (female)
Radio Antenna Connection	N (female)
Data Connection	DB-9 (female)
Power Connection	Combicon 2-terminal connector (mating connector supplied)

Diagnostics	
Data available	Interior temperature, Supply Voltage, RSSI
Data source	I/O port, Over the air
Warranty	The Talon UDC is protected by a two-year limited warranty to the original owner

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