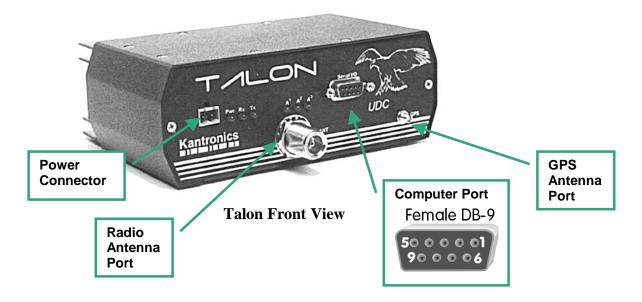


Kantronics Talon Port Pinout Information



Power Connector (2-pin COMBICON, male):

(mating 2 pin female connector is supplied with unit)

Terminal Number	Physical Position	Description		
1	Left terminal	Positive dc supply voltage		
2	Right terminal	GND (dc return)		

Radio Antenna Port:

Type "N" RF connector. Locate antenna radiators at least 2 feet from radio to prevent RFI. Customer is responsible for observing FCC human RF exposure safety limits.

GPS Antenna Port:

MPX connector mates with the GPS magnet mount antenna, which is supplied with the unit if the unit is ordered with the GPS option.



Kantronics Talon Port Pinout Information

Computer (serial) Port:

Terminal no.	Signal name	Function				
1	DCD	Data Carrier Detect. Signals the status of the current I/O stream to your computer. If you are connected to another packet station on the current I/O stream, this output will have a positive voltage on it. If you are disconnected, the voltage on this output will be negative.				
2	RXD	Receive Data: Carries data from the Talon to a computer or other serial device.				
3	TXD	Transmit Data: Carries data from a computer or other serial device to the Talon.				
4	DTR	Data Terminal Ready. Indicates when the computer or other serial device's port is active.				
5	Digital Ground	Digital Signal Ground. Common reference line for digital signals.				
6	DSR	Data Set Ready. Indicates the Talon is powered up.				
7	RTS	Request to Send. Tells the Talon when the computer or other serial device is ready to accept more input from the Talon. Used for hardware flow control.				
8	CTS	Clear to Send. Indicates whether the Talon is ready to accept more input from the computer. Used for hardware flow control.				
9	RI	Output from the Talon. Currently not used.				

Notes:

All cables must be well shielded.

Additional Connectors on Talons with Optional I/O Board:



Analog / Digital I/O Port Pinout (spring-release connector)

	Al1	AI3	DGND	AI5	AI7	DGND	DI4	DI2	DGND	DO4	DO2	GND	AO1	AO3	GND
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
ı									DGND			0.1.0			0115

Function
Terminal #
Terminal #
Function

Signal Name	Signal Terminal #	Use Ground Terminal #	Description				
Al1	1	5	Analog Input 1, 0 to 5 V dc	Analog inputs may be jumpered			
Al2	2	6	Analog Input 2, 0 to 5 V dc	internally (249 Ω resistor) for two-wire			
AI3	3	5	Analog Input 3, 0 to 5 V dc	or three-wire 0 to 20 mA range input.			
Al4	4	6	Analog Input 4, 0 to 5 V dc	Note: Because of protection op-			
AI5	7	11	Analog Input 5, 0 to 5 V dc	amps, which are rail-to-rail input and			
Al6	8	12	Analog Input 6, 0 to 5 V dc	output devices, the voltage to the µP internal 10 bit A/D converter is limited			
AI7	9	11	Analog Input 7, 0 to 5 V dc	to 4.950 V.			
AI8	10	12	Analog Input 8, 0 to 5 V dc				
AO1	25	29	Analog Output 1, 0 to 4.995	V dc @ minimum 10 kΩ load			
AO2	26	30	Analog Output 2, 0 to 4.995 V dc @ minimum 10 $k\Omega$ load				
AO3	27	29	Analog Output 3, 0 to 4.995 V dc @ minimum 10 k Ω load				
AO4	28	30	Analog Output 4, 0 to 4.995 V dc @ minimum 10 $k\Omega$ load				
DGND	5, 6, 11,	12, 17, 18	Digital ground of PCB (μ P)				
DI1	16	18	Discrete Input 1	Discrete inputs are pulled up internally to			
DI2	15	17		logic high of 5 V dc. These inputs may be			
DI3	14	18		activated (pulled low) with a relay contact,			
DI4	13	17	Discrete Input 4	open collector BJT, or open drain FET.			
DO1	22	24	Discrete Output 1				
DO2	21	23		Discrete outputs can handle up to +50 V			
DO3	20	24	Discrete Output 3	dc and 115 mA dc (open drain MOSFET)			
DO4	19	23	Discrete Output 4				

GND

23, 24, 29, 30

Chassis ground (PCB equivalent)



Kantronics Talon Port Pinout Information

Auxiliary Serial Port (female DB-9)

Terminal no.	Signal name	Function	
1	DCD	Output from Talon	
2	RXD	Receive Data: Carries data from the Talon to another serial device.	
3	TXD	Transmit Data: Carries data from another serial device to the Talon.	
4	DTR	Data Terminal Ready. Indicates when the other serial device's port is active.	
5	Digital Ground	Digital Signal Ground. Common reference line for digital signals.	
6	DSR	Data Set Ready. Indicates the Talon is powered up.	
7	RTS	Request to Send. Tells the Talon when the other serial device is ready to accept more input from the Talon. Used for hardware flow control.	
8	CTS	Clear to Send. Indicates whether the Talon is ready to accept more input from the other serial device. Used for hardware flow control.	
9	RI	Output from the Talon. Currently not used.	

Note: This auxiliary serial port on the optional I/O board cannot be used concurrently with the optional internal GPS module.