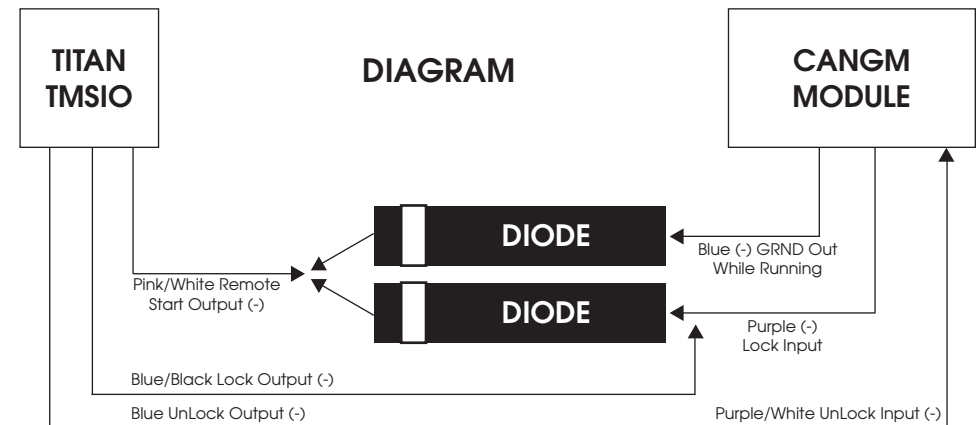
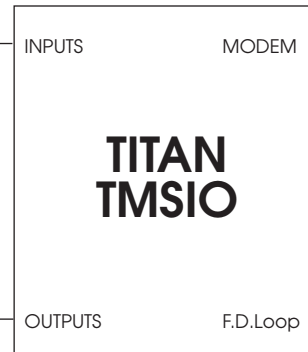


INPUTS (from car/CAN module)		
WIRE COLOUR	TYPE	FUNCTION
Brown	+	Siren/Horn
Purple	+	Positive Door Input
Green/White	-	Negative Door Input
Green/Red**	-	Floating Door input (cut loop)
Grey	-	Hood Pin Input
Red/White	-	Trunk Pin Input
Purple/White	~	Not Used

TMS200 Series Modem		
WIRE COLOUR	TYPE	FUNCTION
Red	+	12V input (Battery)
Black	-	Ground (Chassis)
White		BB Data Output (To BLUE on TMS)
Orange		BB Data Input (To YELLOW on TMS)
Pink	+	Ignition (Hot with Crank)
Pink/Black	+	Not Used

OUTPUTS (TMSIOCANGM)		
WIRE COLOUR	TYPE	FUNCTION
Blue	-	Unlock
Blue/White	-	Not Used
Blue/Black	-	Lock
Orange/White	-	Trunk Release
Pink/White	-	Remote Start Trigger
Black/White	-	Aux 2
Black/Yellow	-	Aux 3
Green	+	Not Used
Orange/Black	-	Not Used

Floating Door Loop	
WIRE COLOUR	FUNCTION
Yellow**	Cut this loop when using floating door input (Green/Red)



For Live Tech Support:
 Call Certified Tracking Solutions at 1-780-391-3800.
 8AM to 6PM Monday to Friday MST
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Wire Diagram: TITAN TMSIOCANGM (Input/Output Expander Module)

Titan TMS Modem	Red	12 Volt-Main Battery Source
	Black	Ground-Chassis Ground
	Pink	12 Volt- Ignition Source
	Orange	BB Data Input Port , this must be connected to the Yellow BB Data output port on the TMS Modem. This is used to send commands from the Cellular TMS Modem to the I/O expander for vehicle controls and starting.
	White	BB Data Output Port , this must be connect to the Blue BB Data input port on the TMS modem. This is needed in order for the I/O expander to be able to send alarm sounding and intrusion alarms to the TMS Modem for transmitting. (Do Not Add the 1K Pull-Up)

Inputs	Brown	(+) Alarm Siren or Factor Horn Input , used to detect if an alarm has been Triggered. The unit is looking for either 6 pulses or 6 seconds before transmitting the alarm event
	Purple	(+) Door Input , used to trigger an Alarm Intrusion "Door" alert. An event will be sent if the expander sees the siren / horn input triggered with a door input trigger
	Green/White	(-) Door Input , see above description
	Green/Red	(Floating) Door Input : Used on vehicles with a floating door pin for the intrusion alert detection
	Grey	(-) Hood Input , used to trigger an Alarm Intrusion "Hood" alert. An event will be sent if the expander sees the siren / horn input triggered with a hood input trigger
	Red/White	(-) Trunk Input , used to trigger an Alarm Intrusion alert. An event will be sent if the expander sees the siren / horn input triggered with a trunk input trigger
	Yellow	Floating Door Loop , please cut if using the Green / Red Floating door input

** The floating door wire will only work with a "GND when Closed" floating door application NOT "POSITIVE when Closed". If "Positive when Closed" door pins are present use a pull down resistor and connect to the "Negative door input" wire.

Outputs	Blue	(-) Door Unlock Single Pulse Output , Connect this output to the Purple / White Unlock input on the CANGM Module
	Blue/White	Not Used
	Blue/Black	(-) Door Lock Output , Connect this output to the Purple Lock input on the CANGM Module. MUST BE DIODE ISOLATED FROM INSTANT START TRIGGER LINE. SEE DIAGRAM
	Orange/White	(-) Trunk Output , Connect to the Yellow / Black Trunk input on the CANGM Module
	Pink/White	(-) Instant Start Trigger , Connect 1.5 second output to Blue "Ground Out While Running" input on CANGM Module. MUST BE DIODE ISOLATED FROM DOOR LOCK LINE. SEE DIAGRAM
	Black/White	(-) Aux 2 Output , Connect 1.5 second output to the Orange Input on the CANGM for Left Sliding Door
	Black/Yellow	(-) Aux 3 Output , Connect 1.5 second output to the Orange / Black Input on the CANGM for Right sliding Door.

Green Not Used