

# Upfitter Interface Module® Order Spec Sheet (Product Configuration Form)



INTERNAL ONLY	
Config. Name	
Date Created	
Part Number	

## Config Options:

- Recommended: Download the UIM Graphical User Interface (GUI) from the [InterMotive website](#), complete the configurations, save and email with your order to: sales@lgs-group.com.
- Or complete this form to specify custom configurations for your UIM. Save and email with your order to: sales@lgs-group.com.

**NOTES:** This form is not for J1939 or UIM4 products. Form not required if default configurations are desired (see Page 3). Available CAN data may vary by make, model or year.  
*Orders will not be processed without the install vehicle's make, model and year.*

## PURCHASER INFORMATION

Date \_\_\_\_\_  
 Company Name \_\_\_\_\_  
 Contact Name \_\_\_\_\_  
 Phone Number \_\_\_\_\_

Email Address \_\_\_\_\_  
**Vehicle Make** \_\_\_\_\_ **Vehicle Model** \_\_\_\_\_  
**Vehicle Year** \_\_\_\_\_ Vehicle Engine \_\_\_\_\_  
 NOTES \_\_\_\_\_

## OUTPUT CONFIGURATIONS

1. Choose the desired option(s) for each active (low) Pin/Output.
  - For a single function, select "X"
  - For a multiple "AND" function, select "Y"
  - For a multiple "OR" function, select "Z"
2. Use output pin equation: (LOGIC A or B) AND (LOGIC C or D) AND (LOGIC E or F).  
*EXAMPLE: Turn on PIN 2 when vehicle is in Park or Neutral AND Park Brake set AND switch 1 is "ON"*
3. Choose the parameter and enter the value (if applicable).

OPTIONS   PID	PARAMETER	VALUE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 8	PIN 9	PIN 10	PIN 11
			Output 1 POWER	Output 2 GROUND	Output 3 GROUND	Output 4 GROUND	Output 5 GROUND	Output 6 GROUND	Output 7 GROUND	Output 8 GROUND
ABS Event (ABS)	Digital	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A/C Clutch Engage (AC)	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbag Deployed/Service (Airbag)	<input type="checkbox"/> On <input type="checkbox"/> Off	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Voltage (VPWR)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ Volts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Baud Rate (Medium Duty, UIM805)	250kbps or 500kbps	_____ kbps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clean Tach Output (CTO)	Variable Frequency	_____ RPM	—	—	—	—	—	—	—	<input type="checkbox"/>
Door Locks (DL)	<input type="checkbox"/> Locked <input type="checkbox"/> Unlocked	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Door: Front Driver	<input type="checkbox"/> Open <input type="checkbox"/> Closed	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Door: Front Passenger	<input type="checkbox"/> Open <input type="checkbox"/> Closed	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Upfitter Interface Module® Order Spec Sheet (Product Configuration Form), Page 2

### OUTPUT CONFIGURATIONS (continued)

1. Choose the desired option(s) for each active (low) Pin/Output.
  - For a single function, select “X”
  - For a multiple “and” function, select “Y”
  - For a multiple “or” function, select “Z”
2. Use output pin equation: (LOGIC A or B) AND (LOGIC C or D) AND (LOGIC E or F).  
*EXAMPLE: Turn on PIN 2 when vehicle is in Park or Neutral AND Park Brake set AND switch 1 is “ON”*
3. Choose the parameter and enter the value (if applicable).

OPTIONS   PID	PARAMETER	VALUE	PIN 1 <small>Output 1 POWER</small>	PIN 2 <small>Output 2 GROUND</small>	PIN 3 <small>Output 3 GROUND</small>	PIN 4 <small>Output 4 GROUND</small>	PIN 8 <small>Output 5 GROUND</small>	PIN 9 <small>Output 6 GROUND</small>	PIN 10 <small>Output 7 GROUND</small>	PIN 11 <small>Output 8 GROUND</small>
Door: Rear Driver	<input type="checkbox"/> Open <input type="checkbox"/> Closed	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Door: Rear Passenger	<input type="checkbox"/> Open <input type="checkbox"/> Closed	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Door: Rear	<input type="checkbox"/> Open <input type="checkbox"/> Closed	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engine Coolant Temp (ECT)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ °F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engine Running Status	Digital	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engine Cranking Status	Digital	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engine Speed (RPM)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ RPM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Level Input (FLI)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ %	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headlights (HL)	<input type="checkbox"/> Off <input type="checkbox"/> Park <input type="checkbox"/> High <input type="checkbox"/> Low	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ignition Status (IGN)	<input type="checkbox"/> On <input type="checkbox"/> Off	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intake Air Temp (IAT)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ °F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Park Brake (PB)	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seat Belt: Driver	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seat Belt: Passenger	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seat Belt: Rear Driver	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seat Belt: Rear Passenger	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Service Brake Applied (SB)	<input type="checkbox"/> On <input type="checkbox"/> Off	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Switch Input 1 (INPUT1)	<input type="checkbox"/> Ground	<input type="checkbox"/> True <input type="checkbox"/> False	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Switch Input 2 (INPUT2)	<input type="checkbox"/> Ground	<input type="checkbox"/> True <input type="checkbox"/> False	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Upfitter Interface Module® Order Spec Sheet (Product Configuration Form), Page 3

## OUTPUT CONFIGURATIONS (continued)

OPTIONS   PID	PARAMETER	VALUE	PIN 1 <small>Output 1 POWER</small>	PIN 2 <small>Output 2 GROUND</small>	PIN 3 <small>Output 3 GROUND</small>	PIN 4 <small>Output 4 GROUND</small>	PIN 8 <small>Output 5 GROUND</small>	PIN 9 <small>Output 6 GROUND</small>	PIN 10 <small>Output 7 GROUND</small>	PIN 11 <small>Output 8 GROUND</small>
Throttle Position (APP)	<input type="checkbox"/> Closed <input type="checkbox"/> Open <input type="checkbox"/> Wide Open	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transfer Case	<input type="checkbox"/> 2WD <input type="checkbox"/> 4WD Low <input type="checkbox"/> 4WD High	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Fluid Temp (TFT)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ °F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmission Range (TR)	<input type="checkbox"/> P <input type="checkbox"/> R <input type="checkbox"/> N <input type="checkbox"/> D	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turn Signals (TS)	<input type="checkbox"/> Off <input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Either	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle Speed (VSS)	<input type="checkbox"/> Above <input type="checkbox"/> Below <input type="checkbox"/> Equal To	_____ MPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle Speed (VSS)	Square Wave	2.2 Hz/MPH	—	—	—	—	—	<input type="checkbox"/>	—	—

## PIN MODES

Choose the desired mode for each pin and enter OFF/ON delay or time in seconds.  
Default is Momentary. For flashing modes, precision is .1 seconds.

<b>PIN 1</b> <small>Output 1</small>	_____	OFF _____	ON _____
<b>PIN 2</b> <small>Output 2</small>	_____	OFF _____	ON _____
<b>PIN 3</b> <small>Output 3</small>	_____	OFF _____	ON _____
<b>PIN 4</b> <small>Output 4</small>	_____	OFF _____	ON _____
<b>PIN 8</b> <small>Output 5</small>	_____	OFF _____	ON _____
<b>PIN 9</b> <small>Output 6</small>	_____	OFF _____	ON _____
<b>PIN 10</b> <small>Output 7</small>	_____	OFF _____	ON _____
<b>PIN 11</b> <small>Output 8</small>	_____	OFF _____	ON _____

### DEFAULT OUTPUT CONFIGURATIONS:

*Form not required if default configurations are desired.*

- PIN 1:** Purple wire | TR = R
- PIN 2:** Green wire | VSS > 65 MPH
- PIN 3:** White wire | ECT > 230°F
- PIN 4:** Gray wire | SB = Applied
- PIN 8:** Brown wire | Engine Running Status = True
- PIN 9:** Orange wire | VSS: 2.2Hz/MPH
- PIN 10:** Blue wire | TR = P
- PIN 11:** Yellow wire | CTO: 0-12V Pulsed  
 $CTO = ((RPM/2)*\#Cyl) = \text{pulses per minute}$   
*Example: 600RPM = 2400 (8 cylinders)*

**NOTES:** *This form is not for J1939 or UIM4 products.  
Available CAN data may vary by make, model or year.*