

INFRARED COMMUNICATION SOLUTIONS

CAN J2799 Controller Specification

The CAN J2799 controller receives CAN input and outputs SAE J2799 data for the Infrared Transmitter. It is intended for use in heavy duty vehicle. The CAN J2799 Controller is offered in two configurations: a version with status LED indicators and a version without status LEDs. Both configurations operate identically and provide the same functionality.

SPECIFICATION DESCRIPTION	VALUE	UNIT	REMARKS
Signal input			
Format	CAN		
Standard	J1939		
Baud rate	500/250	kbps	Factory programmed
Power input			
Voltage (typ)	11 to 35	V	
Voltage (min)	10.5	V	
Current (max)	200	mA	During IR Transmission at 12V
Absolute maximum			
Power voltage in	36	V	
CAN DC Voltage	+/- 42	V	DC survival voltage
CAN Transient Voltage	+/- 250	V	Transient survival voltage
Quiescent current	<100	µA	Wake input at ground
Signal output-			
Format	RS232/RS485		Two models
RS-485 Voltage	+/- 12	V	Differential signal
RS-232 Voltage	+/-7	V	
Power output-IR TX			
Voltage	5 to 24	V	Compatible with IRDI IR TX 200670 or 200680
Max current	180	mA	
Wake Signal			
voltage	5	V	Low voltage or high impedance for sleep. High voltage for wake
Current	<10	mA	@ 24V
Form factor	Rectangular		
Length	15	Cm	
Width	9	Cm	
height	5	Cm	
Weight	<500	g	
Housing material	Aluminum		
Operation temperature	-40 to 85	C	
Ingress protection	IP64		



Contact Information
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All specifications subject to change without notice.

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Mounting	Mounting ears, 3 places		
Output connector type	4P Female		TE AMP T4145515041-001. See Figure 2
Output Pin out	IR TX 5V IR TX power Gnd IR TX Data + (or TxD for RS232) IR TX Data -		Pin 2 Pin 3 Pin 1 Pin 4
Output Mating Connector	4P Male		TE AMP T4111501041-000
Input connector type	5P Male		TE AMP 4-2172082-2. See Figure 1
Input Connector Pins	PWR GND CAN + CAN - Wake		Pin 4 Pin 5 Pin 3 Pin 2 Pin 1
Input Mating Connector	5P Female		TE AMP T4110402051-000
Termination resistor	120	Ω	Not installed (default). On special request, a 120 Ohm termination resistor can be installed.
Status LED	Power – RED Active – Green CAN Bus data – Green IR data - Green		CAN J2799 Controller version 1.5 does not have status LEDs but all functions are the same as regular CAN J2799 Controller.

ORDERING INFORMATION	
Part no.	Description
200737	CAN J2799 controller-RS485
200694	CAN J2799 controller-RS232
201386	CAN J2799 controller-RS485 version 1.5

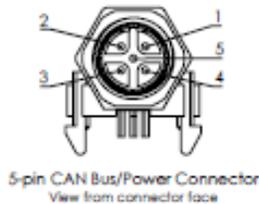


Figure 1 Pinout of the 5P Male connector

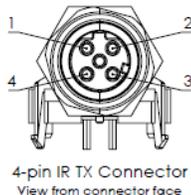


Figure 2 Pinout of the 4P Female connector



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