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.

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		

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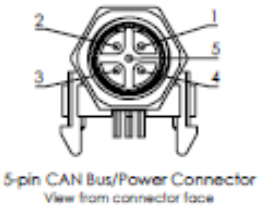
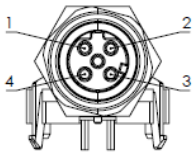
SPECIFICATION DESCRIPTION	VALUE	UNIT	REMARKS
Mounting	**Mounting ears, 3 places**		
Output connector type	**4P Female**		**TE AMP T4145515041-001. See Figure 2**
Output Pin out	**IR TX 5V** **IR TX power Gnd** **IR TX Data + (or TxD for RS232)** **IR TX Data -**		**Pin 2** **Pin 3** **Pin 1** **Pin 4**
Output Mating Connector	**4P Male**		**TE AMP T4111501041-000**
Input connector type	**5P Male**		**TE AMP 4-2172082-2. See Figure 1**
Input Connecter 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.**

ORDERING INFORMATION	
200737	**CAN J2799 contoller-RS485**
200694	**CAN J2799 contoller-RS232**



5-pin CAN Bus/Power Connector
View from connector face



4-pin IR TX Connector
View from connector face

Figure 1 Pinout of the 5P Male connector

Figure 2 Pinout of the 4P Female connector

Contact Information
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