

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

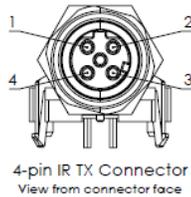
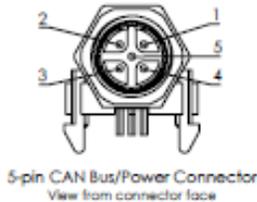
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SPECIFICATION DESCRIPTION	VALUE	UNIT	REMARKS
Mounting	Mounting ears, 3 places		
Output connector type	4P Female		TE AMP T4145515041-001. See Figure 2
Output Pin out	IR TX 5V IR TX power Gnd IR TX Data + (or TxD for RS232) IR TX Data -		Pin 2 Pin 3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

### ORDERING INFORMATION

200737	CAN J2799 controller-RS485
200694	CAN J2799 controller-RS232



**Figure 1 Pinout of the 5P Male connector**

**Figure 2 Pinout of the 4P Female connector**

**Contact Information**  
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All specifications subject to change without notice.