

AiM InfoTech

TEXYS – IRN4C

Release 1.03

---





# 1

## Software configuration

---

This document explains how to connect third party CAN expansion modules to AiM devices CAN2 bus.

The driver here documented allows to read four different Texys IRN4C modules at the same time. To correctly communicate with the AiM device, it is necessary to set them up using the following parameters. Refer to the manufacturer for additional details on the configuration procedure.

Baudrate: **1Mbit/s (1000kbit/s)**

CAN ID for channels 1-4: **0x3F0**

CAN ID for channels 5-8: **0x3F4**

CAN ID for channels 9-12: **0x3F8**

CAN ID for channels 13-16: **0x3FC**

**Please note:** In case this module is going to be used with different parameters, the user can set up a custom driver from the **CAN Protocols** section of the AiM configuration software Race Studio 3. Check the dedicated manual from the AiM website [www.aim-sportline.com](http://www.aim-sportline.com) – Documentation – Firmware/Software area.

## 2

# Wiring connection

---

These modules feature a bus communication protocol based on CAN, this data stream is accessible through their flying leads according to the following connection table.

<b>IRN4C cable color</b>	<b>Function</b>	<b>AiM wire label (optional harness)</b>
Green	CAN High	CAN2 +
White	CAN Low	CAN2 –

## 3

# AiM device configuration

---

Before connecting the kit to the AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer: **TEXYS**
- ECU Model: **IRN4C** (Only RS3 – CAN2 Stream and RS2)

If there is only the AiM device connected to this module, enable the CAN Bus 120 Ohm Resistor.

<input checked="" type="checkbox"/>	Enable the CAN Bus 120 Ohm Resistor
<input type="checkbox"/>	Silent on CAN Bus

## 4

# “TEXYS – IRN4C” protocol

---

Channels received by AiM loggers configured with “TEXYS – IRN4C” protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
IR1	Module 1 Infrared temperature sensor 1 outer
IR2	Module 1 Infrared temperature sensor 2 inner
IR3	Module 1 Infrared temperature sensor 3 inner
IR4	Module 1 Infrared temperature sensor 4 outer
IR5	Module 2 Infrared temperature sensor 1 outer
IR6	Module 2 Infrared temperature sensor 2 inner
...	...
IR15	Module 4 Infrared temperature sensor 3 inner
IR16	Module 4 Infrared temperature sensor 4 outer