I-5534-M CAN bus Switch Module Quick Start User Guide

1. Introduction

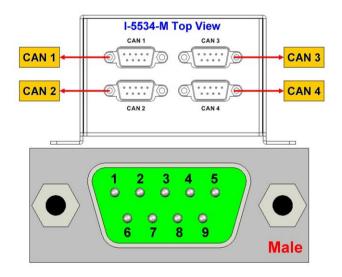
This Quick Start User Guide introduces users how to use the I-5534-M module to their application quickly. Therefore, it is only provided with the basic instructions. For more detail, please refer to the I-5534-M manual in the ICPDAS CD-ROM. Users can also download the manual from the ICPDAS web site:

<u>http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/can_bus/r</u> <u>epeater/i-2534_i-5534-m.html</u>

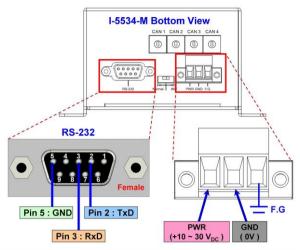
This Quick Start guilds you quickly to familiarize yourself with the I-5534-M module. Here, we use an example to show how to use the I-5534-M.

2. CAN bus Pin Assignment

Port	Pin	Description
	2	CAN_Low
CAN1	3	CAN_Ground
CANT	5	CAN_Shield
	7	CAN_High
	2	CAN_Low
0.4.1.0	3	CAN_Ground
CAN2	5	CAN_Shield
	7	CAN_High
CAN3	2	CAN_Low
	3	CAN_Ground
	5	CAN_Shield
	7	CAN_High
CAN4	2	CAN_Low
	3	CAN_Ground
	5	CAN_Shield
	7	CAN_High



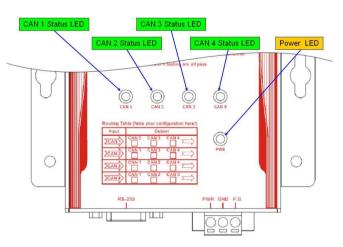
3. Power & RS-232 Pin Assignment



Name	Description
TxD	RS-232 TXD pin of the I-5534-M. Connect to the PC's RxD pin.
RxD	RS-232 RXD pin of the I-5534-M. Connect to the PC's TxD pin.
GND	RS-232 GND pin of the I-5534-M. Connect to the PC's GND pin.

Name	Description
PWR	Voltage Source Input. $+10V_{DC} \sim +30V_{DC}$.
GND	Power Ground.
F.G	Frame Ground.

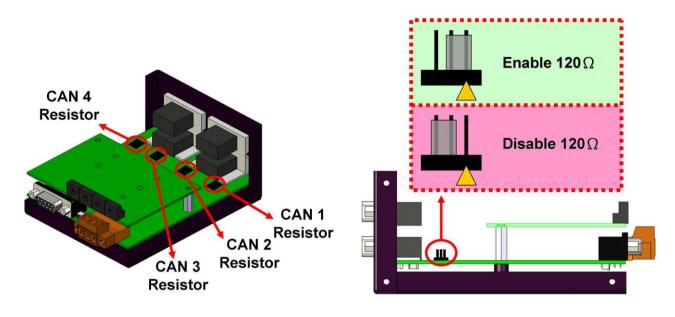
4. Indicator LED



Name	LED Color	Description
PWR	OFF	The I-5534-M has no power.
	Red	The I-5534-M has power.

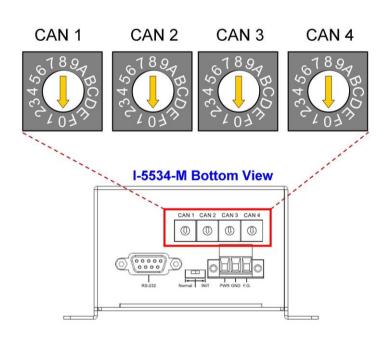
Name	LED Color	CAN Status Description
CAN1	OFF	The CAN port does not transmit or receive message now.
CAN2	Green	The CAN port is transmitting or receiving message now.
CAN3 CAN4	Red	The CAN port have some errors when transmitting message.

5. CAN bus Terminal Resistor & DIP-Switch



6. Rotary Switch & CAN Baud Rate

Switch	CAN bus
Value	Baud Rate
0	5 kbps
1	10 kbps
2	20 kbps
3	33.3 kbps
4	50 kbps
5	62.5 kbps
6	83.3 kbps
7	100 kbps
8	125 kbps
9	250 kbps
А	500 kbps
В	800 kbps
С	1 Mbps
D	User-defined
	baud rate.
E~F	Not-available



7. Normal / Initial Mode Switch

In general usage, the users should make switch at the "Normal" position.

Mode Name	The I-5534-M Status Description	I-5534-M Bottom View
Normal	The I-5534-M is in the	
Normai	normal mode.	
	The I-5534-M is in the	
	configurable status. The	RS-232 Normal NIT PWR GND F.G.
	users could use the	
	"I2534_I5534M_Utility" to	
	configure the route path,	
Initial	CAN filter or user-defined	
	CAN baud rate.	
	In the initial mode, the	
	CAN1 LED ~ CAN4 LED	◀── ──▶
	will be all twinkling every 1	Normal INIT
	second.	

8. Configuring the Route Path, User-defined Baud Rate, CAN-ID Mapping

Users can configure the route path and user-defined baud rate of each CAN channel. We provide the "I2534_I5534M_Utility" to set these configurations into the I-5534-M module. They can get the software utility from the product CD or website.

I-2534 / I-5534-M Utility ¥1.2		1-2534 / 1-5534-M Utility ¥1.2
COM Port in PC COM Port COM COM Open COM 115200,n,8,1	I-2534 / I-5534-M	COM Port in PC COM Port COM1 - Open COM 1-2534 / 1-5534-91 115208,n.8,1
CAN-ID Filter CAN Port 1 CAN Port 2 C	AN Port 3 CANPort4	CAN-ID Filter CAN Port 1 CAN Port 2 CAN Port 3 CANPort4
Download CAN Filter User Define CAN Baud Rate		CAN Port 1 Routing Table
		Input CAN Port Output CAN Port
Step 1. Create CAN Filter File	CAN 1 33.2 Kbps	$CAN 1 \longrightarrow \qquad \overrightarrow{\mathbf{v}} \ CAN 2 \qquad \overrightarrow{\mathbf{v}} \ CAN 3 \qquad \overrightarrow{\mathbf{v}} \ CAN 4 \qquad \longrightarrow \qquad $
Step 2. 🗹 Enable CAN Filter	CAN 2 56.9 Kbps	Image: Weight of the state of the
Step 3. Download CAN Filter File	CAN 3 22.4 Kbps CAN 4 11.3 Kbps	• 23-bit • 0x1023bx000004BC • 11-bit • 229-bit • 23-bit • 0x00001122>0x000002211
Read CAN Filter ✓ CAN Filter Status in Module	Download User Baud Rate	Add
Read from Module	Read from Module	Clear Table Delete Row
		Load CAN-ID File Save CAN-ID File Read from Module Write to Module
Firmware Ver. Reset Module 👫 Exit Utility		

Mail to <u>service@icpdas.com</u> if you have any questions.