I-2534 & I-5534-M FAQ

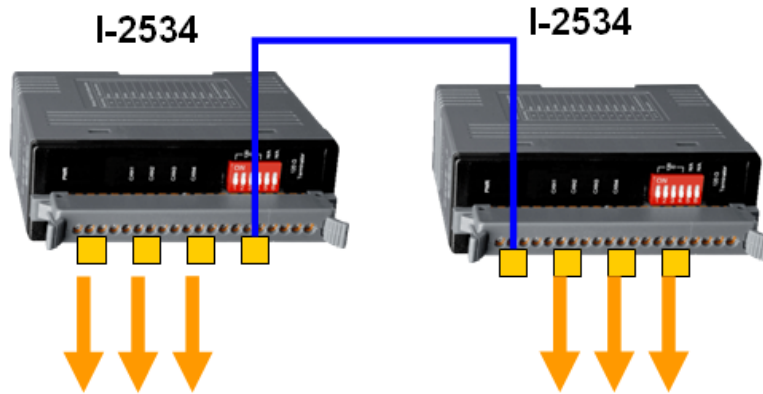## Q1、What is the maximum FPS of the I-2534? (2012/3/15,Johney)

The maximum data flow up to 2500 frames per second for all CAN channels. Please see the following figure.
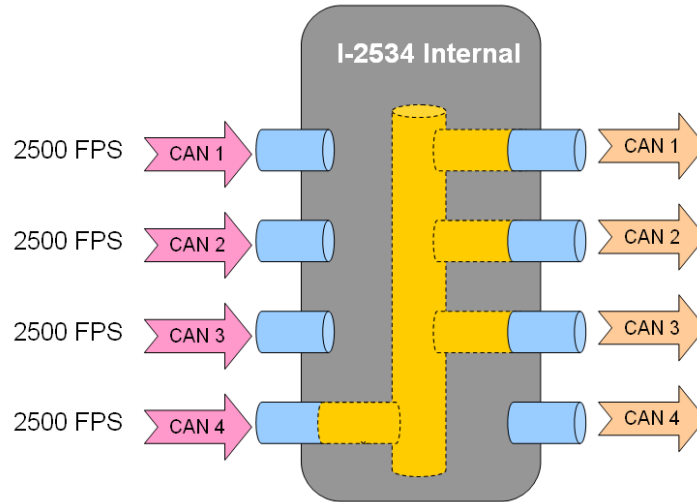
Q2、How to implement the 6 ports CAN switch with the I-2534? (2012/3/15,Johney)

The I-2534 can be cascaded to expend the CAN ports. Here shows the 6 ports and 12 ports examples.

6 ports CAN switch application
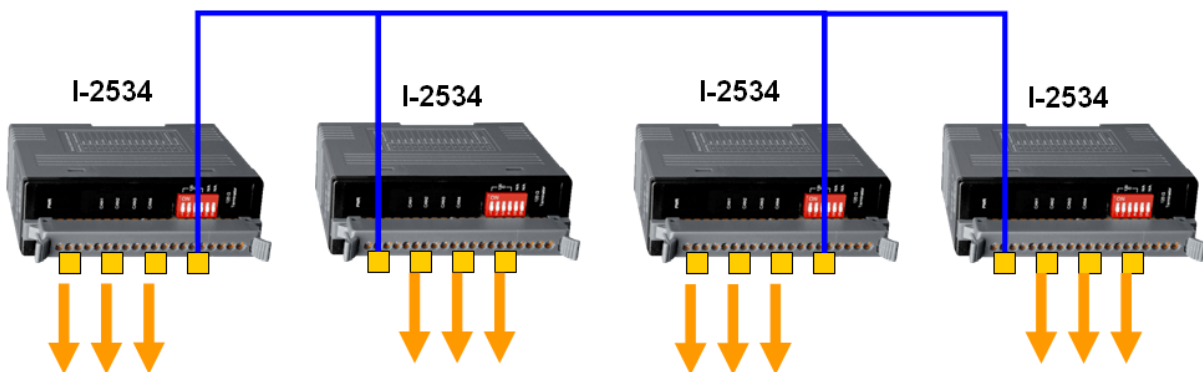
12 ports CAN switch application

Q3、How to manage reduce the data flow in 12 ports CAN switch? (2012/3/15,Johney)

The users can use 4 I-2534s to implement 12 ports CAN switch. But the data flow would be very huge. The users can use another I-2534 to configure the extra routing path. Here shows the example.

Q4、How much delay time does the I-2534 take? (2012/3/15,Johney)

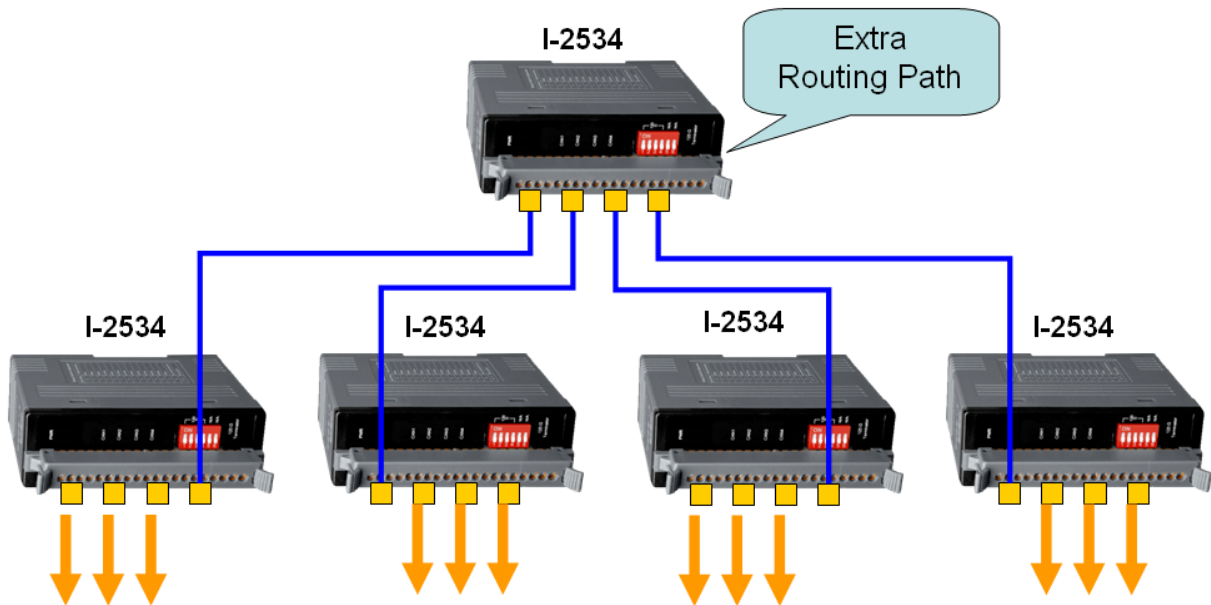The I-2534 is the management CAN switch. It need to receive the CAN messages and transfer to another ports. The delay time would be the related to the CAN baud rate. Here shows the propagation delay of the I-2534 below.

125 kbps	CAN 1	CAN 2	CAN 3	CAN 4
CAN 1		1120 μs	1280 μs	1360 μs
CAN 2	1120 μs		1280 μs	1360 μs
CAN 3	1120 μs	1280 μs		1360 μs
CAN 4	1120 μs	1280 μs	1360 μs	

250 kbps	CAN 1	CAN 2	CAN 3	CAN 4
CAN 1		640 μs	720 μs	880 μs
CAN 2	640 μs		720 μs	880 μs
CAN 3	640 μs	720 μs		880 μs
CAN 4	640 μs	720 μs	880 μs	

500 kbps	CAN 1 ↑Output	CAN 2 ↑Output	CAN 3 ↑Output	CAN 4 ↑Output
Input → CAN 1		360 μs	480 μs	560 μs
Input → CAN 2	360 μs		480 μs	560 μs
Input → CAN 3	360 μs	480 μs		560 μs
Input → CAN 4	360 μs	480 μs	560 μs	

| 1 Mbps	CAN 1 ↑Output	CAN 2 ↑Output	CAN 3 ↑Output	CAN 4 ↑Output
Input → CAN 1		240 μs	320 μs	440 μs
Input → CAN 2	240 μs		320 μs	440 μs
Input → CAN 3	240 μs	320 μs		440 μs
Input → CAN 4	240 μs	320 μs	440 μs	

Q5、How to divide one CAN network into two groups with I-2534 module? (2012/3/15,Johney)

We sometime use CAN ID to divide the CAN network into several groups. Here shows how to divide one network into two groups. First, the users need to list the CAN ID of these two groups. Second, set the CAN ID into the CAN filter. Third, set the correct routing path. Here is the example CAN1 ←→ CAN2 and CAN3 ←→ CAN4. Finally, the users can receive the specific CAN IDs in the CAN 2 and CAN 3. The following figure shows the example.
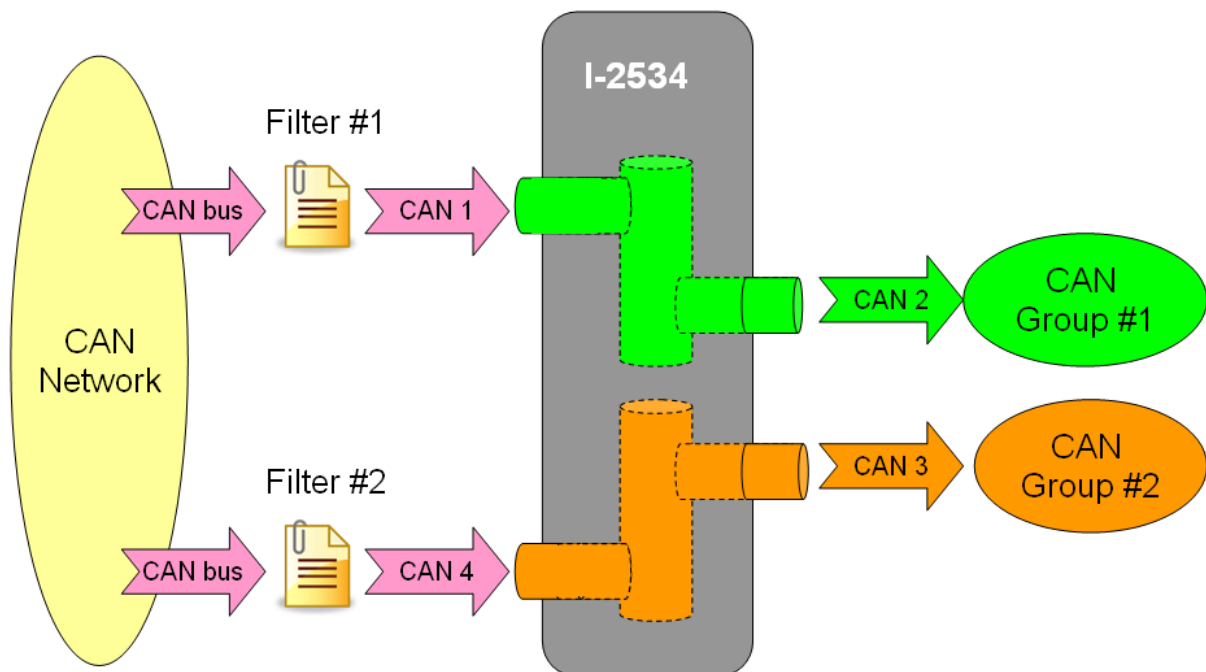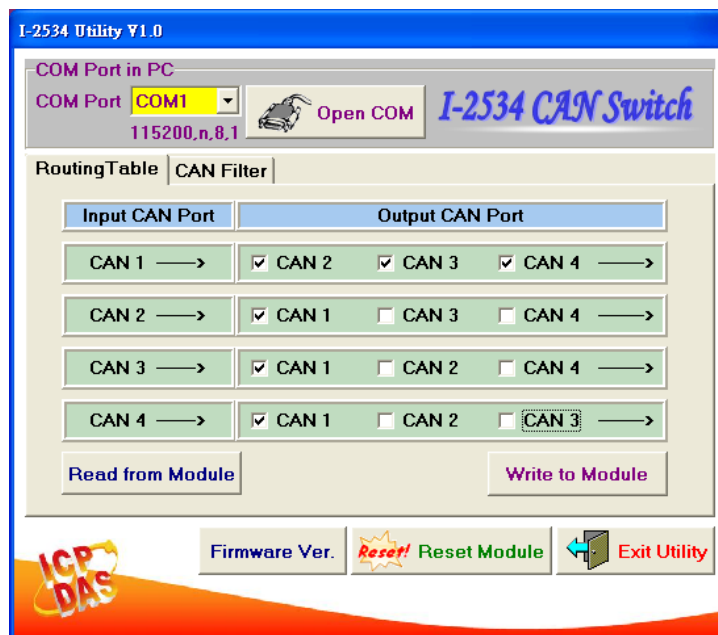
Q6、How to configure CAN 1 as input and CAN 2, 3, 4 as output within I-2534 module? (2012/4/22,Johney)

The CAN 1 is input and CAN 2,3,4 are output. The illustration should be like the following diagram.

Send Commands   Read Responses
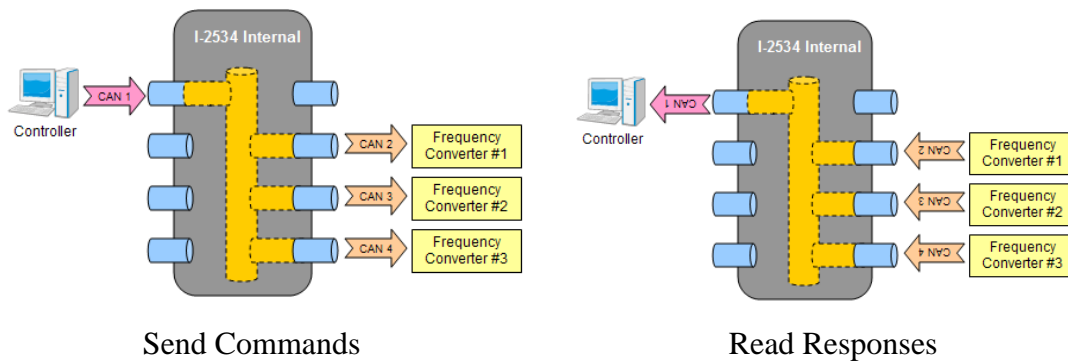
If the diagram is the correct control path, your I-2534's route path configuration should be like as follow picture.

Q7、If I only connect the I-2534's CAN 1 & 2 and CAN 3 & 4 is open, it will work fine between CAN 1 & 2 ? (2012/4/22,Johney)

The following connection would still work fine.