Who need P518 card?

1. Function description:

One P518 card can support 7 RS232 port and one ground isolated RS422/485 port.
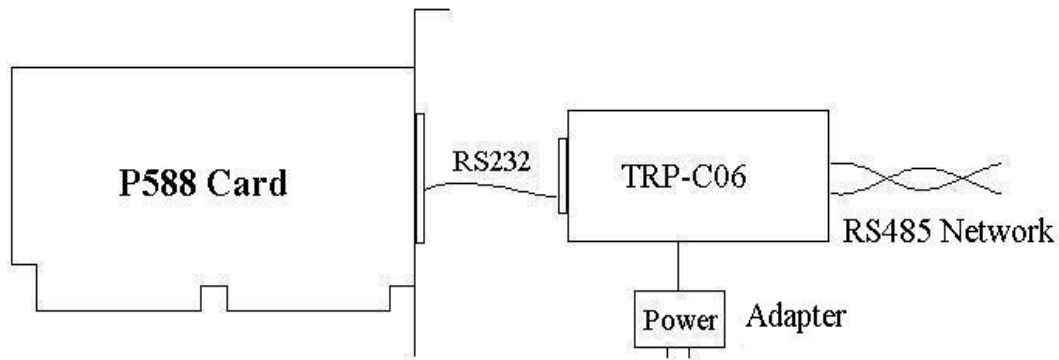
2. Application description:

In one industrial control environment we can use RS232 interface to connect upto 50 feet. For any application need longer connection we can use RS422 or RS485 interface (we can connect upto 4000 feet). So there are many equipment to support RS232 interface or RS485 interface.

In some application user may use our P588 card to support 8 RS232 connection initially. Then they find one equipment just support RS485 interface (Or that equipment need to connect more than 50 feet and data is not stable in RS232 connection). So they buy one TRP-C06 RS232 to RS485 interface converter. They use this converter to connect with one RS232 port in P588 card to support RS485 interface. Because TRP-C06 converter need power supply to offer power source for work. So we need prepare one power supply for TRP-C06.

One day we turn ON the power of PC and start to work. We find that TRP-C06 converter is very hot. Because we forgot to turn OFF the power supply for TRP-C06 converter. Generally this condition may degrade the reliability of TRP-C06 converter. The other day we turn ON the power of PC and start to work. We find that RS485 network do not work. Because the power supply of TRP-C06 do not turn ON. Of course the data from PC do not send in RS485 network.

From system structure point of view, it is not good structure for one RS232 port to connect with TRP-C06 converter. From management point of view, we may forget to turn OFF the power supply of TRP-C06 or forget to turn ON. This is not good for management.

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In our new project we use P518 card initially. Even though we just need to use RS232 connection, we still prepare one ground isolated RS422/485 port for RS485 network connection. From system structure we just have one PCI card to be fixed in PC. Anytime we need to use RS485 network, we just need to connect with such RS485 port. From management point of view there are no problem in power On/OFF condition. When PC is power OFF, RS485 network do not work. When PC is power ON, RS485 network is ready to work. So you can use RS485 network just like to use RS232 port. There are no limitation and concern as TRP-C06 converter.

3. Conclusion:

For any application to use RS232 interface only, it is good to use TRP-C06 converter for RS485 network later. But it is good for one new project to use P518 card in their plan. P518 card can offer low cost, simple structure and good management condition in your application environment. When we can have P518 card in use, we don't need TRP-C06 converter to use.