Why you need RAYON's 5V Power Only APCI card

In traditional RS232 serial port we may need to have 5V,+12V,-12V power supply in PC for our RS232 interface chip. But we may not have -12V power supply in some of our new PC system. Some PC system may also remove +12V power supply. In this condition we can not use normal RS232 serial port card. To meet this condition RAYON's new APCI card just need to use 5V power supply. APCI card can support 3.3V & 5V PCI bus slot. Due to cost and flexibility requirement we have different models to support different serial port interface application.

Model	RS232	RS422	RS485
AP111	1	1	1
AP111-I	1	1	1
AP102	2	0	0
AP132	0	2	2
AP112	2	2	2
AP102-I	2	0	0
AP132-I	0	2	2
AP112-I	2	2	2

For RS232 only customer we offer AP102/AP102-I card to support 2 RS232 serial ports. AP102 card is similar as RAYON's P232 card. AP102-I card can support GROUND Isolated feature in each serial port,

For some user they may use RS422 for long distance connection. But they may need to use RS485 for multi-drop connection. In this condition we may suggest AP132 or AP132-I card. AP132 and AP132-I card can support two serial ports to be RS422 or RS485 interface settable by DIP switch. It is very flexible for you to connect long distance via RS422 full duplex protocol or RS485 half duplex protocol. AP132 card is similar as RAYON's P422N card. AP132-I card can support GROUND Isolated feature in each serial port and similar as RAYON's UP422-I card.

For some user their application environment is major in RS232 connection. But they may need to have capability to connect with RS422 equipment for long distance connection or RS485 multi drop connection. In this condition we may suggest AP111, AP112, AP111-I and AP112-I card. AP111 and AP111-I card can support one RS232/RS422/RS485 settable serial port. AP112 and AP112-I card can support two RS232/RS422/RS485 settable serial ports. Originally they may use all two ports in

RS232 connection. Then they may change to RS422 for long distance connection. Or they may need to use RS485 for multiple RS485 equipment connection. It is very easy to change interface by DIP switch. It is very flexible for application environment modification. For AP102 card user they may need to pay a little more money in AP112 card to reserve flexibility in the future. AP111-I and AP112-I card can support GROUND Isolated feature in each serial port.

For some user their application environment is major in RS485 connection. But they need to have capability to connect with RS232 equipment. In this condition we may suggest AP112 card. AP112 card can support two RS232/RS422/RS485 settable serial ports. Originally they may use all two serial ports for RS485 equipment. Then they may have some request for RS232 equipment. Or they may have RS422 equipment to connect later. It is very easy to change interface type by DIP switch anytime. For current AP132 card's user they may need to pay a little more money in AP112 card to have more flexibility in the future. AP111-I and AP112-I card can support GROUND Isolated feature in each serial port.

Due to cost consideration and flexibility in the future RAYON's customer may have one optimum solution to use. When you just need to use in dedicated application environment, you can pay less to get target interface product. When you need flexibility in the future, you can pay a little more to get interface option.

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AP102-I	2	0	0
AP132-I	0	2	2
AP112-I	2	2	2