

The secret of Chip Card Programming Machine's producer

For Chip Card Programming Machine's producer the price war is started. Due to more and more manufacturer can make such machine, so the profit margin is lower. But the function in Chip Card is powerful. How can one manufacturer confirm the function in Chip card is correct or not. So the function test and quality control in Chip Card Programming Machine are the important part in cost control.

Due to the powerful and flexible feature in chip card we may have console port (serial port) in each Chip card Programming Module. We can use console port to program and check the data in Chip card Programming Module.

When one Chip Card Programming Machine need to program chip card quickly. It is not reasonable for one engineer to check one chip card programming module in one console. So we may have one console for each chip card programming module. And one engineer may handle 8 or upto 40 consoles (chip card programming module).

Now, we find that we can have multi-console in Windows system. When one WIN2000 system installs 40 serial ports to connect with chip card programming module. Then we can have one engineer to control 40 chip card programming module in his WIN2000 system.

When we need to reduce the cost of chip card programming machine. We need to have lower initial cost and lower maintenance cost. Initially one chip card programming machine may have 8 card programming modules. So we just need 8 serial ports for this machine. Then user may have big business and need to support extra 8 card programming modules to 16 modules. Now you need extra 8 serial ports. You just need to have another serial port connector box to connect daisy-chain together.

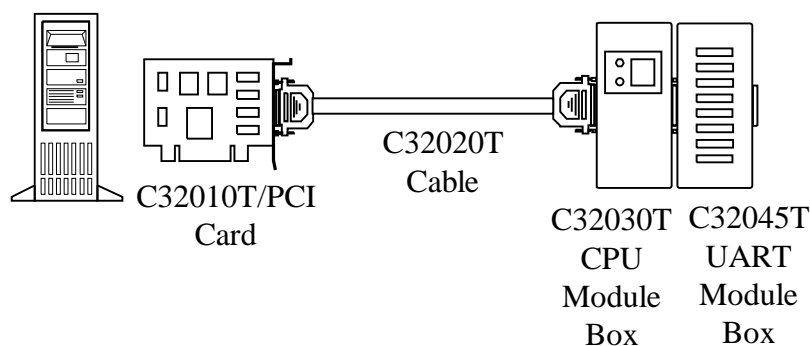
As you can see in figure 1. The old structure to support 8 serial ports is C32010T/PCI card , one C32020T cable to one C32030T CPU module box and one C32045T UART module box. The new structure to support 8 serial ports is IOP3927F card, one A640 cable to one F641 connector box. So we can have lower initial cost. From maintenance point of view you need to prepare C32010T/PCI card, C32030T CPU module box and C32045T UART module box for old structure. In new structure you just need to prepare IOP3927F card and F641 connector box.

You can consider one condition. When you have prepared one 16 serial port machine for customer. But customer needs two 8 serial port machines. In old structure you need to prepare one C32010T/PCI card and one C32030T CPU module box to meet your target. In

new structure you just need to prepare one IOP3927F card to meet your target. So you can save your cost in new structure. From this condition it is very easy for you to arrange your stock. Generally we will prepare C32045T UART module box or F641 box for serial port extension (you can extend from 8 serial port upto 64 port). But it is not easy for you to arrange the stock for C32010T/PCI card and C32020T CPU module. Because it is depend on the number of new machine. And it is cost higher than C32045T UART module. For new structure you just need to prepare IOP3927F card. And it is not cost so much than F641 connector box. So it is easy for you to arrange the stock for component in new structure.

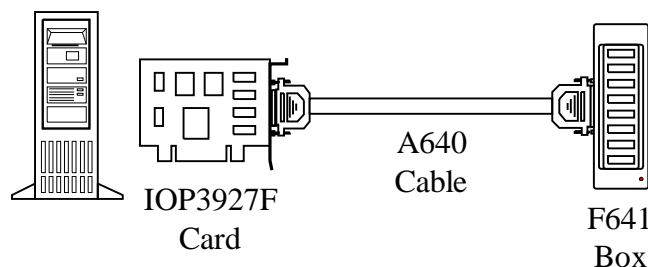
This is the secret of one chip card programming machine's producer in Germany. So you can also save your cost in your company.

Fig.1 : Chip Card Programming Machine Old Structure for 8 Serial Port .



Cost = C32010T/PCI Card
+ C32020T Cable
+ C32030T CPU Module Box
+ C32045T UART Module Box

Fig.2 : Chip Card Programming Machine New Structure for 8 Serial Port .



Cost = IOP3927F Card
+ A640 Cable (Bundle in IOP3927F Card)
+ F641 Box