

Comparison

The comparison of hardware

Brand	LinCon HMI	Proface HMI	Siemens HMI	Weintek HMI
Product address	China	Japan	German	China
LCD	5.7、 8.4、 10.4、 12.1、 15 inch color TFT LCD	5.7、 7.5、 10.4、 12.1、 15 inch mono、pseudo、 color TFT LCD	3、 5.7、 10.4、 12.1、 15 inch mono、 DSTN、 color TFT LCD	5.7、 7.5、 10.4、 12.1、 15 inch mono、 DSTN、 color TFT LCD
Brightness	MAX. 450cd/m ²	—	—	MAX. 350cd/m ²
Backlight	50000 hours	50000 hours	60000 hours	25000 hours
Color level	ALL 65536 color	MAX. 65536 color	MAX, 256 color	MAX. 65536 color
Touch panel	4 wire Analog Resistive	4 wire Analog Resistive	4 wire Analog Resistive	4 wire Analog Resistive
Memory	32M DRAM 4M NOR FLASH 32M NAND FLASH (programming)	8M FEPRM (programming) 320K SRAM	12M FLAS (programming)	16M DRAM 8M FLASH
Serial Interfaces	1xRS232 2xRS232/RS485	1xRS232/RS485 85 1xRS485	2xRS232 1xRS485	2xRS232/RS485
Ethernet Interface	2x10/100M Ethernet	1x10/100M Ethernet	1x Ethernet	1x10/100M Ethernet
USB Interface	2xUSB 2.0 Host	2xUSB 1.1 Host	1xUSB Host	1xUSB 1.1Slave
CF Interface	1xCF Type I/II	1xCF Type I/II	1xCF	1xCF
Printer Interface	USB Printer	USB Printer	COM、 USB、 Ethernet Printer	Standared LPT
Audio Interface	Audio Input/Output	Audio Input/Output	NO	NO

The comparison of software

Brand	LinCon HMI	Proface HMI	Siemens HMI	Weintek HMI
OS	Embedded Linux	Customed	Customed or Windows CE	Customed
Database	real-time database Historical database	real-time database	real-time database Historical database	NO
Language	English/simplified Chinese	English/simplified Chinese	English/simplified Chinese	English/simplified Chinese
Fonts	8、12、16、24 lattice fonts, Windows vector font	8、16、32 lattice fonts, 6-127 lattice vector fonts	Windows fonts	8-96 lattice fonts, Windows vector font
Script Language	Standard C language	D-script	Visual Basic Script script	Macro instruction
Communication	YES	YES	YES	YES
Communication redundancy	YES	NO	NO	NO
Device redundancy	YES	NO	NO	NO
Control functional block	YES	NO	NO	NO
Software PLC	YES	NO	NO	NO
Scanning speed	MAX. 10ms	MAX.100ms	—	MAX.100ms
Upload/Download	Ethernet、USB	COM、USB	COM、MPI、Profibus、USB、Ethernet	COM、USB

Currently LINCON industrial control software is similar with Siemens Wincc configuration software, the United States Redlion software, beijier software and so on.

The comparison of Configuration and Touch-screen software

Configuration software: Lincon

Touch-screen software: Proface, weintek

1. Comparison of software origin

The Configuration software is from DCS system, which mainly was provided for the hardware configuration of the DCS system, Human-Machine Interface, alarming, trends and other functions.

The touch-screen software is from PLC system, which mainly was provided for PLC, HMI display.

2. Comparison of software feature

In general, the functions of configuration software are relatively complex. It collects real-time data usually provide comprehensive real-time database, historical database, human-machine interface, trends, alarming and other functions, more advanced configuration software also includes soft PLC systems, redundant control complex control functions.

Touch-screen software is relatively simple, generally only supports the display of the PLC data and other functions and also offered a simple alarm, the trend display.

3. Comparison of use range

The function of touch screen software is limited. The software did not include control functions and normally only was suitable for connection to PLC.

A wide range of configuration software is used, which can be connected to PLC devices, but also can be connected to DCS controllers, IO module card and so on.

4. Comparison of usage

The function of Touch-screen software is simple and therefore relatively easy to use and study. In particular, it is easy to show the relevant PLC data.

The function of configuration is relative complex and some configuration software need to have some programming capabilities for user.

5. Trends

With the development of industrial control technology, DCS and PLC systems are gradually moving toward integration. configuration software and touch-screen software learn from each other and penetrate each other. Configuration software is used in conventional Human-machine interface area and would make the more powerful Human-machine interface in the extension and flexibility, which is the future trend of HMI development.