NORCO's IPC Solution for Mobile Phone Inspection & Testing System

Overview:

With the rapid development of mobile communication, the use of cellphone is becoming more and more pervasive and has become an indispensable part in people's daily life. Every year, Thousands of new mobile phones coming into market, with different brands and different new features. Therefore, the quality becomes the first and the most important factor for customers to make the buying decision. Almost every mobile phone manufacturer has notice this factor and every mobile phone must passed a series of severe quality tests before entering the market. However the inspection and testing system is also affecting the testing results. Many mobile phone manufacturers begin to looking for better and more reliable solution for their cellphone inspection and testing system. With the good fame in the IPC field and years'experience in providing inspection and detection solutions, NORCO has come out as the final choice for a Cellphone Inspection &Testing Equipment Manufacturer. NORCO's industrial PC will be chosen as the hardware main control solution for their mobile phone inspection and testing system.
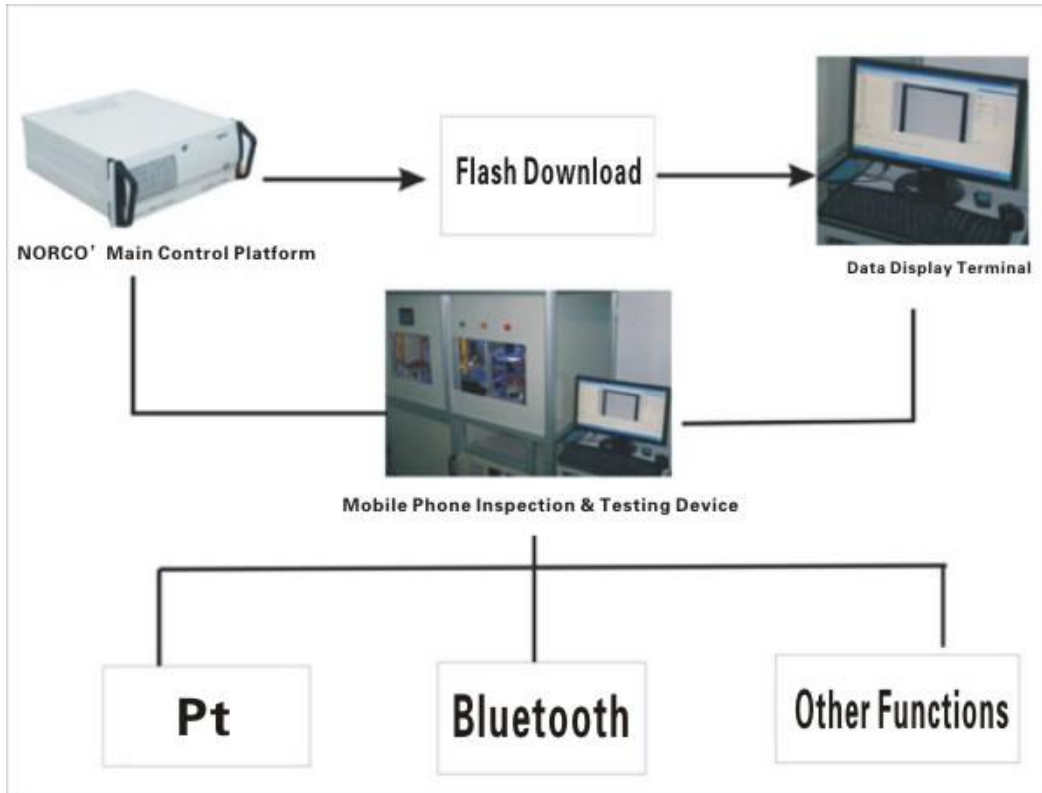
System Requirements:

A main controlling computer compatible with mobile phone inspection and testing software will be used as the core part for this solution. Insert an PCI-PIB card into the industrial PC and then connect to the mobile phone test equipment via the GPIB interface, to realize the cellphone's download system test and other functions, such as multi-media test, voice test, LCD test and keypad test, etc. The main controlling platform will affect the efficiency of the testing equipment, therefore, customers have a very high requirements about its computing power, expansion compatibility and operability.

Solution:

 NORCO's IPC solution is chosen by a mobile phone manufacturer to be the main controlling platform for their mobile phone test. This industrial PC is composed of a 4U arc door industrial chassis RPC-600 and a PICMG1.0 full size CPU card SHB-890 (LGA 775), efficient and reliable, rich I/O, flexible expansion, good compatibility and easy to operate. All these innovative features will secure a faster transmission rate of the test data as well as a radical reduction in the test costs.

RPC-600 is a 4U arc door 19" industrial chassis, rackmount and EuropeStyle with a special hold-down clamn design, conforming to EIARS-310C standards. 2x Internal 3.5" Disk Drive Bay, 2x 5.25" Front Accessible Disk Drive Bay; matching with industrial CPU or Commercial PC motherboard (optional). 2*USB on the front; lock design of the front panel to prevent maloperation. SHB-890 is a PICMG1.0 full size CPU card, based on Intel 945GC + ICH7 chipset with a LGA775 microprocessor socket, supporting Intel Pentium-D , Pentium-4,Celeron-D with(HT)function and the latest Core 2 Duo CPU. 533MHz/800MHz/1066MHz FSB; 2*dual channel 240Pin DDR DIMM RAM slots, suppourting DDRII 533/667MHZ system meomry up to 2GB; Northbridge integrated graphic controller, dynamic share max.224MB system memory as video memory. This CPU card features in good compatibility and rich I/O, providing 4*USB2.0, 1*IDE, 4*SATAII, 2*COM, 1*parallel port and 1*10/100/1000Mbps Ethernet port. In addition, it also support other advanced functions such as Watchdog, IrDA, Anti-virus BIOS, etc.

Block Diagram:

System Features:

4U Arc Door Industrial Chassis RPC-600

*4U, 19"Rackmount, EuropeStyle,EIARS-310C standards

*2x Internal 3.5" Disk Drive Bay, 2x 5.25" Front Accessible Disk Drive Bay

*Matching with industrial CPU or Commercial PC motherboard optional

*2x USB Port on the front, lock design of the front panel to prevent maloperation

*Power and HDD LED on the front panel

*Special hold-down clamp, flexible to make adjustment

SHB-890-PICMG1.0 SPEC Full Size CPU Card Based on Intel 945GC Chipset

*Support LGA775 Intel Core 2 Duo / Pentium-4/Pentium-D/Celeron-D processor

*Intel 945GC + ICH7 Chipset

*2*240 Pin DDRII DIMM slots support DDRII 400/533/667 RAM up to 2GB

*Intel ® 945G integrated Graphics(Intel® GMA 950)

*Realtek ALC655, AC'97 5.1 CH

*RTL8111B Controller, 1*10/100/1000Mbps RJ45

*LAN/IDE/4SATA/FDD/4USB/LPT/2COM

System Evaluation:

NORCO's main controlling computer has a strong computing power, flexible expansions and compatibility to workwith mobile phone inspection and testing software, securing a stable operation uder high temperature and

humidity environments, which provides an optimized data transmission architecture for the testing platform, enhancing the testing efficiency and accuracy as well as decreasing the total test cost.

For more information, please visit company website: www.norco-group.com