Chapter 1

Introduction of the Motherboard

1-1   Feature of motherboard

- VIA VX900H chipset.
- Onboard VIA Nano CPU, with low power consumption and never denies high performance
- Support FSB 800MHz
- Support DDRIII SODIMM 1066 MHz up to 8GB
- Onboard REALTEK RTL 8111E Gigabit Ethernet LAN
- Integrated VIA 1705 CE 6-channel HD audio CODEC
- Support USB2.0 data transport demands
- Support RS232/422/485
- Support PCIE slot and Mini-PCIE slot
- Support CPU Smart FAN
- Supports ACPI S3 Function
- Support watchdog function

1-2　Specification

Spec	Description
Design	● Mini-ITX form factor; PCB size: 17.0x17.0cm
Chipset	● VIA VX900H
CPU	● VIA Nano processor
Memory Socket	● DDRIII slot x2 ● Support 1066 MHz DDRIII DIMM ● Expandable to 8 GB
Expansion Slot	● PCI Express x 16 by 8 Lane x1 ● Mini-PCIE slot x1
Integrate SATAII	● Support two internal serial ATAII 3 Gb/s connectors ● Support RAID 0/1
Gigabit LAN	● Integrated RTL8111E Gigabit PCI-E LAN chip ● Support Fast Ethernet LAN function of providing 10Mb/100Mb/1000Mb Ethernet data transfer rate
Audio	● VIA VT 1705CE 6-channel Audio Codec integrated ● Audio driver and utility included
BIOS	● AMI 8MB Flash ROM
Multi I/O	● Serial port connector x1 ● VGA port connector x1 ● USB 2.0 port x 4 and USB 2.0 header x2 ● RJ-45 LAN connector x1 ● HDMI connector x1 ● Optical S/PDIF connector x1 ● Audio connector x3 (Line-out, Line-in, MIC) ● Front panel audio header x1 ● CDIN header x1 ● GPIO header x1 ● Speaker header x1 ● PWRLED header x1 ● Front panel header x1

	- Parallel port header x1 - Serial port header x1 and RS232/422/RS485 header x1 - LVDS header x2 and LVDS inverter x2

1-3 Layout Diagram

Rear IO Diagram

COM Port RJ-45 LAN Port HDMI Port Line-OUT MIC-IN

USB Ports VGA Port USB Ports Optical S/PDIF Out Line-IN