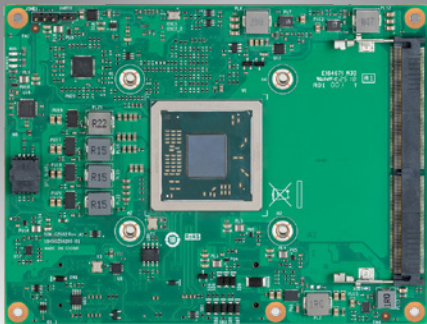


# SOM-GZ582

COMe Basic Type6核心模块  
兆芯KX-6000G处理器



## 特点

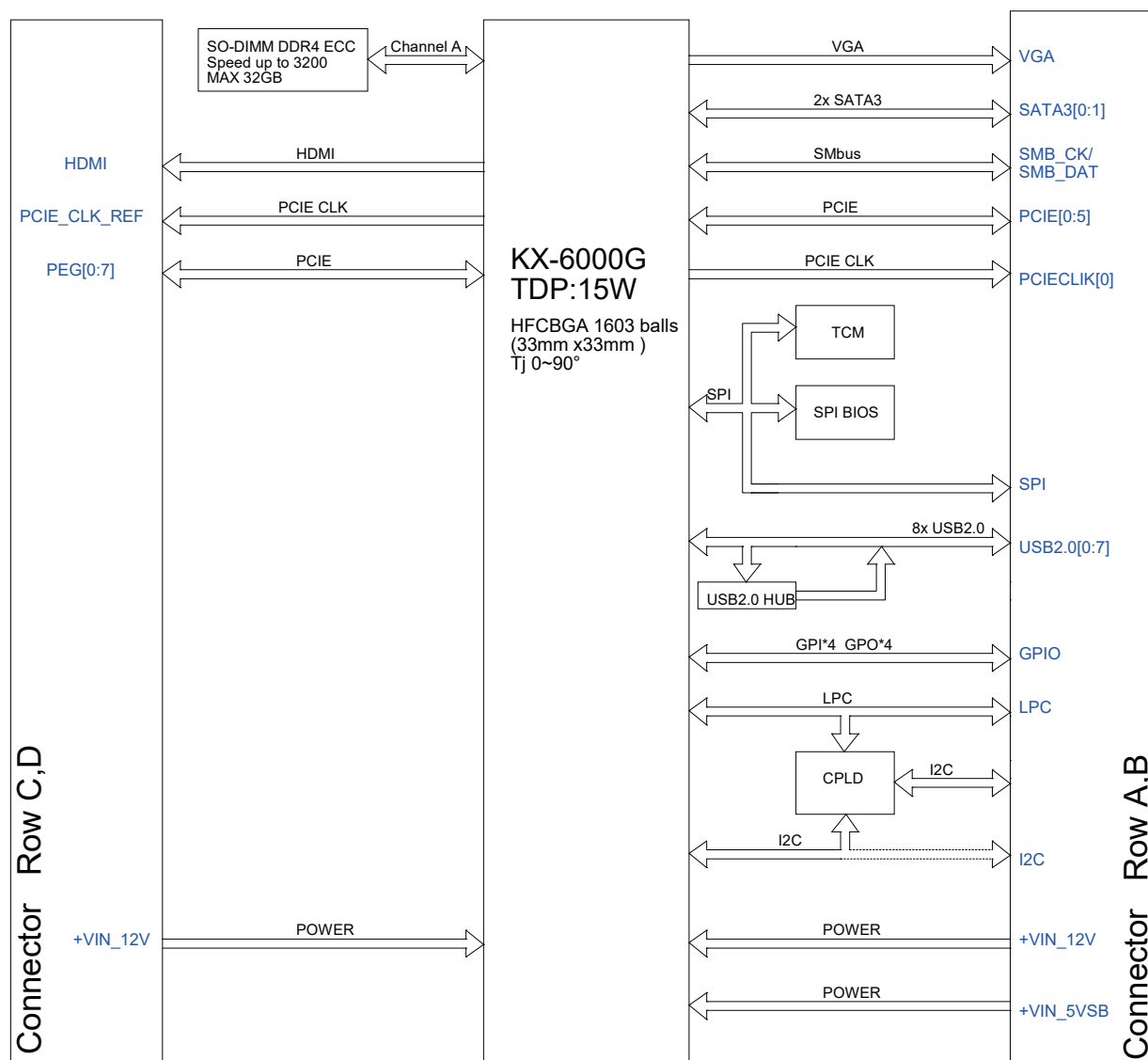
- 兆芯KX-6000G, 4核低功耗处理器
- 支持1\*SO-DIMM DDR4内存, Up to 32GB
- HDMI, VGA双高清显示
- 2个SATA3.0, 8个USB2.0
- PCLE可以配置×8, ×4, ×2, ×1
- 支持麒麟/统信等国产操作系统
- 国产化率100%
- COMe R3.0 Type 6 Basic模块(125 x 95mm)

## 规格

|             |                      |                                                                                                                    |        |            |        |              |        |        |
|-------------|----------------------|--------------------------------------------------------------------------------------------------------------------|--------|------------|--------|--------------|--------|--------|
| 产品类型        | Form Factor          | COM Express Basic Module                                                                                           |        |            |        |              |        |        |
|             | Pin-Out Type         | COM Express R3.0 Type 6 pin out                                                                                    |        |            |        |              |        |        |
| 处理器         | CPU                  | KX-6000G                                                                                                           |        |            |        |              |        |        |
|             | Core Number          | 4                                                                                                                  |        |            |        |              |        |        |
|             | TDP                  | 15W                                                                                                                |        |            |        |              |        |        |
|             | BIOS                 | 百敖                                                                                                                 |        |            |        |              |        |        |
| 内存          | Technology           | DDR4                                                                                                               |        |            |        |              |        |        |
|             | Frequency            | 3200MHz                                                                                                            |        |            |        |              |        |        |
|             | ECC Support          | Yes                                                                                                                |        |            |        |              |        |        |
|             | Max. Capacity        | Up to 32GB                                                                                                         |        |            |        |              |        |        |
| 显示          | Socket               | 1 260P SO-DIMM                                                                                                     |        |            |        |              |        |        |
|             | VGA                  | 1 1920 x 1080@60Hz                                                                                                 |        |            |        |              |        |        |
|             | HDMI                 | 1                                                                                                                  |        |            |        |              |        |        |
| 扩展          | PCI Expression       | 支持CFG_A [0:8]配置, X8 or X4 or X2 or X1                                                                              |        |            |        |              |        |        |
|             |                      | PHY_Ax14                                                                                                           |        |            |        |              |        |        |
|             |                      | PHYA_[0:1]                                                                                                         |        | PHYA_[2:9] |        | PHYA_[10:13] |        |        |
|             |                      | X2 PE6                                                                                                             |        | X8 PE4     |        | X4 PE0       |        |        |
|             |                      | CFG_A0                                                                                                             |        | X8 PE4     |        | X4 PE0       |        |        |
|             |                      | CFG_A1                                                                                                             | X1 PE6 | X1 PE7     | X8 PE4 |              | X4 PE0 |        |
|             |                      | CFG_A2                                                                                                             | X1 PE6 | X1 PE7     | X4 PE4 | X4 PE5       | X4 PE0 |        |
|             |                      | CFG_A3                                                                                                             | X1 PE6 | X1 PE7     | X8 PE4 |              | X2 PE0 |        |
|             |                      | CFG_A4                                                                                                             | X1 PE6 | X1 PE7     | X8 PE4 |              | X1 PE0 | X1 PE1 |
|             |                      | CFG_A5                                                                                                             | X1 PE6 | X1 PE7     | X4 PE4 | X4 PE5       | X1 PE0 | X1 PE1 |
| Serial Bus  | SMBus                | 1                                                                                                                  |        |            |        |              |        |        |
|             | I2C Bus              | 1                                                                                                                  |        |            |        |              |        |        |
| Ethernet    | Gigabit              | No                                                                                                                 |        |            |        |              |        |        |
|             | SATA3.0              | 2 Ports                                                                                                            |        |            |        |              |        |        |
| I/O         | USB2.0               | 8 Ports                                                                                                            |        |            |        |              |        |        |
|             | USB3.0               | 4 Ports                                                                                                            |        |            |        |              |        |        |
|             | SPI Bus              | Yes                                                                                                                |        |            |        |              |        |        |
|             | GPIO                 | 4 x DI, 4 x DO                                                                                                     |        |            |        |              |        |        |
|             | LPC                  | 1                                                                                                                  |        |            |        |              |        |        |
|             | Watchdog             | 65536 level, 0 ~ 65535 sec                                                                                         |        |            |        |              |        |        |
| Power       | Type                 | ATX: Vin, VSB; AT: Vin                                                                                             |        |            |        |              |        |        |
|             | Supply Voltage       | Vin: 12V; VSB: 5V +/-5%,                                                                                           |        |            |        |              |        |        |
| Environment | Temperature          | Operating Standard: 0 ~ 60 °C (32 ~ 140 °F)<br>Storage: -40 ~ 85° C (-40 ~ 185° F)                                 |        |            |        |              |        |        |
|             | Humidity             | Operating: 40 °C @ 95% relative humidity, non-condensing<br>Storage: 60 °C @ 95% relative humidity, non-condensing |        |            |        |              |        |        |
|             | Vibration Resistance | 3.5Grms                                                                                                            |        |            |        |              |        |        |
| Mechanical  | Dimensions           | 125 x95mm                                                                                                          |        |            |        |              |        |        |

## 原理框图

Board Diagram



## 订购信息

| 料号               | CPU      | 基础频率   | 核心数 | 最高DDR4内存频率 | CPU功耗 | 工作温度   |
|------------------|----------|--------|-----|------------|-------|--------|
| SOM-GZ582-6GL0A1 | KX-6000G | 2.0HGZ | 4   | 3200MHz    | 15W   | 0-60°C |

## 开发板

| 料号              | 描述                                   |
|-----------------|--------------------------------------|
| DMS-DB5800-00A1 | COMe R3.0 Devel. Board Type6 Rev. A1 |
| SOM-DB5830-00A1 | COMe R3.0 Devel. Board Type6 Rev. A1 |