

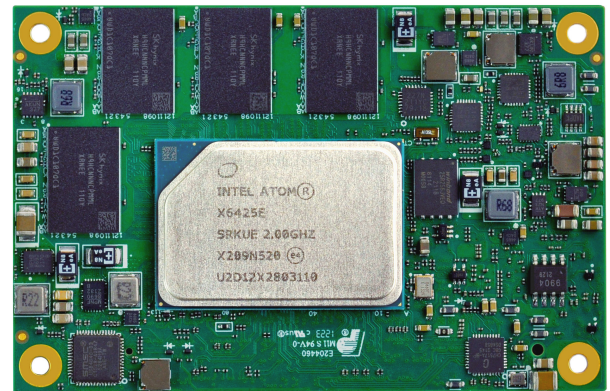
COM-X6425E

COM Express® Mini Size Type 10 Module with
Intel® Atom™ X6000E Processor System-on-Chip

产品功能

- ◆ 单,双, 四核 Intel® Atom™ X6000E SOC 处理器
- ◆ 板载 16GB DDR4 内存
- ◆ 板载 128-512G UFC 电子盘 (可以选择)
- ◆ 1 个双通道 18/24Bit LVDS 显示接口
- ◆ 2 个 RS232 接口
- ◆ 1 个 CRT 和 HDMI 显示接口
- ◆ 3 个 PCIe x1, 1 个 2.5G TSN GbE
- ◆ 2 个 SATA , 4 个 USB3.0
- ◆ 工作温度: -25°C to +75°C

扩展温度: -40°C to +85°C



技术参数

核心系统

CPU	Single, dual, quad-core Intel® Atom™ X6000E X6425E 1.80 GHz (3.0GHz 12W (4C)) X6413E 1.50 GHz (3.0GHz 9W (4C)) X6211E 1.3 GHz (3.0GHz 6W (2C)) X6200FE 1.0 GHz (3.0GHz 4.5W (2C)) no GPU
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Memory	DDR4, memory up to 16GB
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Embedded BIOS	AMI EFI with CMOS backup in 8MB SPI BIOS
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Cache	TBC
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Expansion Busses	3 PCI Express x1 Gen2 (AB): lanes 0/1/2; Optional PCIe x4 (lose GbE) LPC bus, SMBus (system), I ² C (user)
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显示

GPU Feature	11th Intel® graphics Core architecture
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Display Interface	One DDI channel supporting DisplayPort/HDMI/DVI
LVDS/eDP /CRT	Double channel 18/24-bit LVDS eDP support(optional) CRT support

声卡

Chipset	Intel® HD Audio integrated in SOC
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Audio Codec	Located on carrier COM-E3845-X 底板
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网络

Intel® MAC/PHY Interface	Intel® i225 (MAC/PHY) Ethernet controller 100M/1000M/2.5G GbE connection
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I/O 接口

USB	4xUSB 3.0
SATA	2 SATA
Serial	2 UART
UFC	128G to 512 GB
GPIO	4 GPO and 4 GPI

扩展 I/O

Standard Input	On carrier if needed (standard support for SMC3114)
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电源

Standard Input	ATX = 12V±2% / 5Vsb ±5% or AT = 12V±2%
Wide Input	ATX = 5-20V / 5Vsb (standard temp. only) ATX = 5-20V / 5Vsb (standard temp. only)
Management	ACPI 4.0 compliant, Smart Battery support
Power States	C0, C1, C1E, C4, C6 S0, S3, S4, S5 (Wake on USB S3/S4, WOL S3/S4/S5)
ECO mode	Supports deep S5 (ECO mode) for power saving

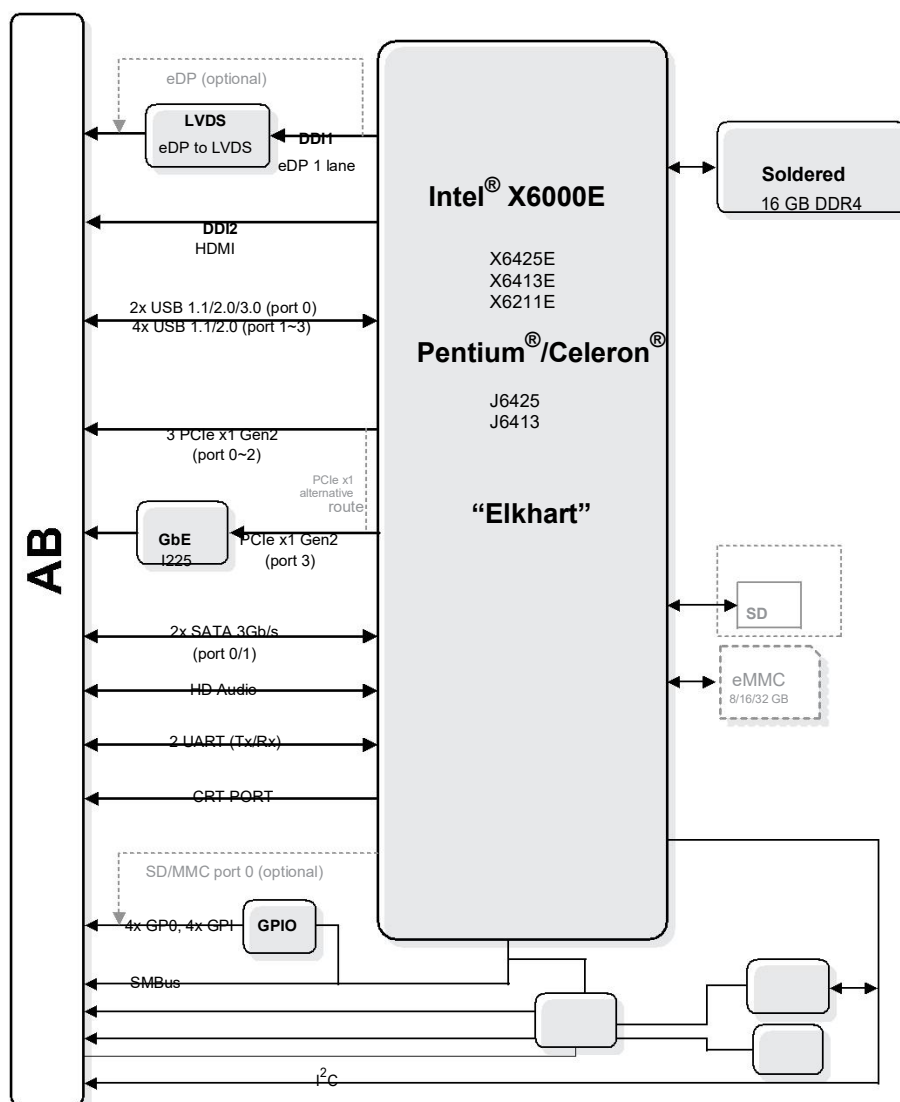
机械尺寸及环境

Form Factor	PICMG COM.0: Rev 2.1 Type 10
Dimension	Mini size: 84 mm x 55 mm
Operating Temperature	Standard: -25°C to +75°C Extreme Rugged: -40 to +85°C
Humidity	5-90% RH operating, non-condensing 5-95% RH storage (operating with conformal coating) MIL-STD-202F, Method 213B, Table 213H, Condition A and Method 214A, Table 214-I Condition D
HALT	Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

操作系统支持

Standard Support	Win10/64-bit, Win10 IOT 64-bit, Yocto Linux 64-bit VxWorks 64-bit, Ubuntu (TPC)
Extended Support	Yocto project based Linux 64-bit

功能框图



订购信息

COM Express 模块

模块型号	产品描述及设置
COM-X6425E	X6425E CPU/1.80GHz /16GB DDR4
COM-X6413E	X6413E CPU/1.50GHz /16GB DDR4
COM-X6211E	X6411E CPU/1.30GHz /16GB DDR4
COM-X6200FE	X6200FE CPU/1.0GHz /16GB DDR4/NO GPU

开发工具

模块型号	产品描述及设置
COM	Express Type10 开发底板
COM	COM-X6425E 核心主板
电子盘	mSATA-32G 电子盘
配件	电缆, 散热器, 螺柱