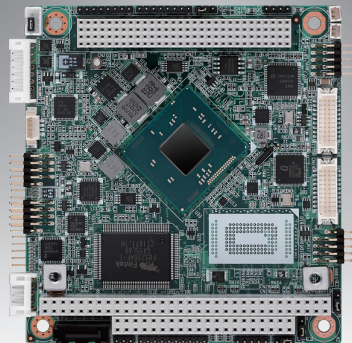


PCM-3365

Intel® Atom™ E3825 / E3845 & Celeron® N2930, PC/104-Plus SBC, ISA, VGA, HDMI/DVI, LVDS, 6 USB, mSATA or Onboard Flash

NEW



susiAccess CE FCC

Features

- Intel® Atom™ E3825/E3845 & Celeron® N2930, DDR3L-1066/1333MHz SODIMM up to 8GB
- DirectX11, OpenGL3.2, OpenCL1.1, 3 independent display: VGA+LVDS/HDMI+LVDS/DVI+LVDS/VGA+LVDS
- Support PC/104-Plus expansion
- Rich I/O: 1 GbE, 3 COM, SATA, 6 USB2.0, SMBus/I2C, GPIO, full-size Mini PCIe/full-size mSATA
- Supports SUSIAccess and Embedded Software APIs

Software APIs:



Utilities:

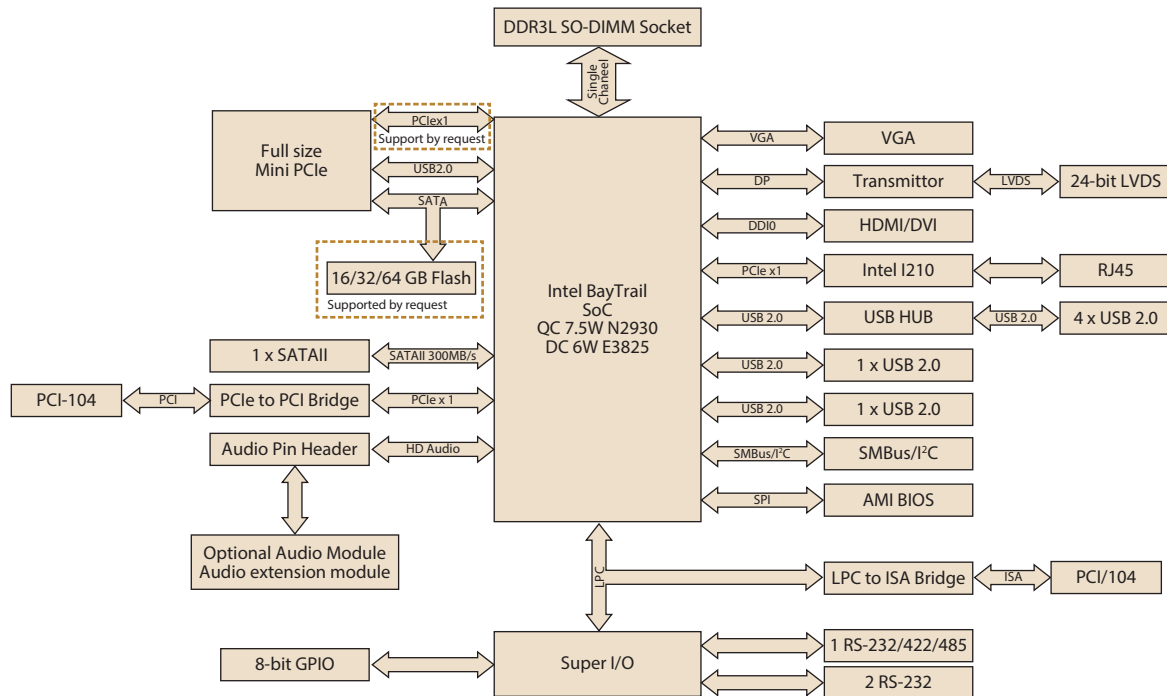


Specifications

| | | | | |
|--------------------------|---|--|--|----------------------|
| Processor System | CPU | Intel Celeron N2930 | Intel Atom E3825 | Intel Atom E3845 |
| | Base Frequency | 1.83 GHz (Quad-Core) | 1.33 GHz (Dual-Core) | 1.91 GHz (Quad-Core) |
| | Max Turbo Frequency | 2.16 GHz | - | - |
| | L2 Cache | 2MB | 1MB | 2MB |
| Memory | BIOS | AMI UEFI BIOS at 64 Mb | | |
| | Technology | DDR3L 1333 MHz | DDR3L 1066 MHz | DDR3L 1333 MHz |
| | Max. Capacity | 8 GB | | |
| Display | Socket | 1 x 204-pin SODIMM | | |
| | Controller | Intel Gen7 graphic engine | | |
| | Processor Graphics | DirectX11, OpenGL3.2, OpenCL1.1 Full HW acceleration, decode: H.264, MPEG2/4, VC-1, WMV9. Encode: H.264, MPEG2 | | |
| | VGA | 2560 x 1600 at 60Hz | | |
| | LVDS | 24-bit LVDS up to WUXGA 1920 x 1200 at 60Hz Supports 3.3/5 for VDD power, 1A@5V/12V for inverter | | |
| | HDMI / DVI | HDMI 1.4a for HD video playback, 1080P at 60Hz, up to 1920 x 1080 DVI 1.0 (DVI-D), up to 1920 x 1080 (Cable is optional) | | |
| | Multit-Display | VGA + LVDS, VGA + HDMI/DVI, HDMI/DVI + LVDS | | |
| Ethernet | Speed | 10/100/1000Mbps | | |
| | Controller | Intel I210 | | |
| | Connector | Pin Header | | |
| WatchDog Timer | Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds | | | |
| Storage | SATA | 1, up to 3Gb/s (300 MB/s) | | |
| | mSATA | 1 x Full-size (SATA signal shared with Onboard flash) | | |
| | Onboard Flash* | 16GB/32GB/64GB | | |
| Internal I/O | Serial | 1 RS-232/422/485 from COM 1, 2 RS-232 from COM2/3 (ESD protection: Air gap ±15kV, Contact ±8kV) | | |
| | USB2.0 | 6 | | |
| | I ² C | 1 (Shared with SMBus pin) | | |
| | SMBus | 1 | | |
| | GPIO | 8-bit | | |
| Expansion | Mini PCIe | 1 x Full-size (default supports SATA and USB, PCIe is supported by request) | | |
| | PC/104 | PC/104 Expansion, Memory and DMA are not supported | | |
| | PCI-104 | PCI-104 Expansion | | |
| Power | Power Type | AT / ATX | | |
| | Power Supply Voltage | 5V ± 5% | | |
| | Power Consumption (Typical) | E3825: | 0.877A@+5V, 0.006A@+12V, 0.003A@+5VSB (4.472W) | |
| | | E3845: | 0.923@+5V, 0.007A@+12V, 0.004A@+5VSB (4.719W) | |
| | | N2930: | 0.866A@+5V, 0.006A@+12V, 0.003A@+5VSB (4.417W) | |
| | Power Consumption (Max, test in HCT) | E3825: | 1.107A@+5V, 0.008A@+12V, 0.008A@+5VSB (5.671W) | |
| E3845: | | 1.493@+5V, 0.008A@+12V, 0.025A@+5VSB (7.686W) | | |
| N2930: | | 1.331A@+5V, 0.009A@+12V, 0.016A@+5VSB (6.843W) | | |
| Power Management | ACPI | | | |
| Battery | Lithium 3 V / 210 mA | | | |
| Environment | Operational | 0 ~ 60° C with 0.7m/s air flow (32 ~ 140° F) (Operational humidity: 40° C @ 95% RH Non-Condensing) | | |
| | Non-Operational | -40° C ~ 85° C and 60° C @ 95% RH Non-Condensing | | |
| Physical Characteristics | Dimensions (L x W) | 96 x 90 mm (3.8" x 3.5") | | |
| | Weight | 0.735 kg (1.62 lb) (with heat-sink) | | |
| | Height | Top side: 14.4mm (N2930, E3825), 19.4mm (E3845); Bottom side: 7.8mm, PCB: 1.6mm | | |

* The specification is supported by request

Block Diagram



Ordering Information

| Part No. | CPU | L2 Cache | Memory | VGA | HDMI/DVI | LVDS | USB2.0 | SATA | GbE | COM | PCI-104 | PC/104 | Full-size miniPCIe | Thermal solution | Operating Temp |
|------------------|-------|----------|--------|-----|----------|--------|--------|------|-----|-----|---------|--------|--------------------|------------------|----------------|
| PCM-3365E-S3A1E | E3825 | 1MB | SODIMM | Yes | Yes | 24-bit | 6 | 1 | 1 | 3 | Yes | Yes | Yes | Passive | 0 – 60 |
| PCM-3365EW-S3A1E | E3825 | 1MB | SODIMM | Yes | Yes | 24-bit | 6 | 1 | 1 | 3 | Yes | Yes | Yes | Passive | -40 – 85 |
| PCM-3365EW-S9A1E | E3845 | 2MB | SODIMM | Yes | Yes | 24-bit | 6 | 1 | 1 | 3 | Yes | Yes | Yes | Passive | -40 – 85 |
| PCM-3365N-S8A1E | N2930 | 2MB | SODIMM | Yes | Yes | 24-bit | 6 | 1 | 1 | 3 | Yes | Yes | Yes | Passive | 0 – 60 |

Packing List

| PN | Description | Quantity |
|----------------|--|----------|
| | PCM-3365 SBC | 1 |
| | Startup manual | 1 |
| 1700002332 | ATX power cable 20P-13P/8P/3P/3P 13 cm | 1 |
| 1700003491 | AT power cable 1 x 8P-2.0/B4P-5.08 x 2 15 cm | 1 |
| 1700017863 | LAN cable RJ-45/2 x 5P-2.0 15 cm | 1 |
| 1700071000 | SATA data cable 7p 100 cm | 1 |
| 1700022749-11 | SATA power cable B4P-5.08/SATA 15P 10 cm | 1 |
| 1703100260 | USB cable 2 ports 2.0 mm pitch w/ bracket 26 cm | 3 |
| 1701200220 | RS-232 x 2 ports 2.0 mm 22 cm | 1 |
| 1700019414 | RS-232/422/485 30cm 1 prot | 1 |
| 1700000898 | VGA cable D-SUB 15P(F)/12P-1.25 mm15 cm | 1 |
| 9689000002 | mini Jumper pack | 1 |
| 1960073365T001 | Heatsink for E3845 (77.98 x 79.66 x 17.58 mm) | 1 |
| 1960071977T001 | Heatsink for E3825/N2930 (79.66 x 77.98 x 12 mm) | 1 |

Optional Accessories

| Part No. | Description |
|-----------------|---|
| 1960075183T001 | Heat spreader of PCM-3365 (79.66 x 77.98 x 10.68 mm) |
| 1653130421 | PCI-104 connector 120-pin (Long pin) |
| 165313222B | PC/104 connector 64-pin (Long pin) |
| 165312022B | PC/104 connector 40-pin (Long pin) |
| 1700025501-01 | 15cm DVI cable |
| 1700025492-01 | 10cm HDMI cable |
| PCA-AUDIO-HDB1E | Audio extension module |
| 1700025491-01 | 30cm audio cable connecting PCM-3365 and audio extension module |

Embedded OS/API

| Windows 10 | Part No. | Description |
|--------------|------------|---------------------|
| WES8 | TBC | |
| WES7 | 2070014273 | WES7E x64 |
| WEC7 | TBC | |
| Linux | | Kernel 3.x |
| VxWorks | | 6.9.3.3 |
| Android | | Kit Kat 4.4 |
| Software API | | iManager (SUSI 4.0) |