

PD10KC

COM Express Compact Size (Type 6) Form Factor
Intel® Kaby Lake / Skylake Processor

Features

- Intel® Kaby Lake / Skylake Core i7/i5/i3 / Celeron ULV processors
- Intel® vPro technology support
- 2 x DDR4 SO-DIMM and support up to 32GB
- Support triple display for Display Port, HDMI and LVDS
- 3 x SATAIII
- 1 x Intel® Gigabit Ethernet
- 4 x USB 2.0 and 4 x USB 3.0



SO-DIMM DDR4 socket



CPU

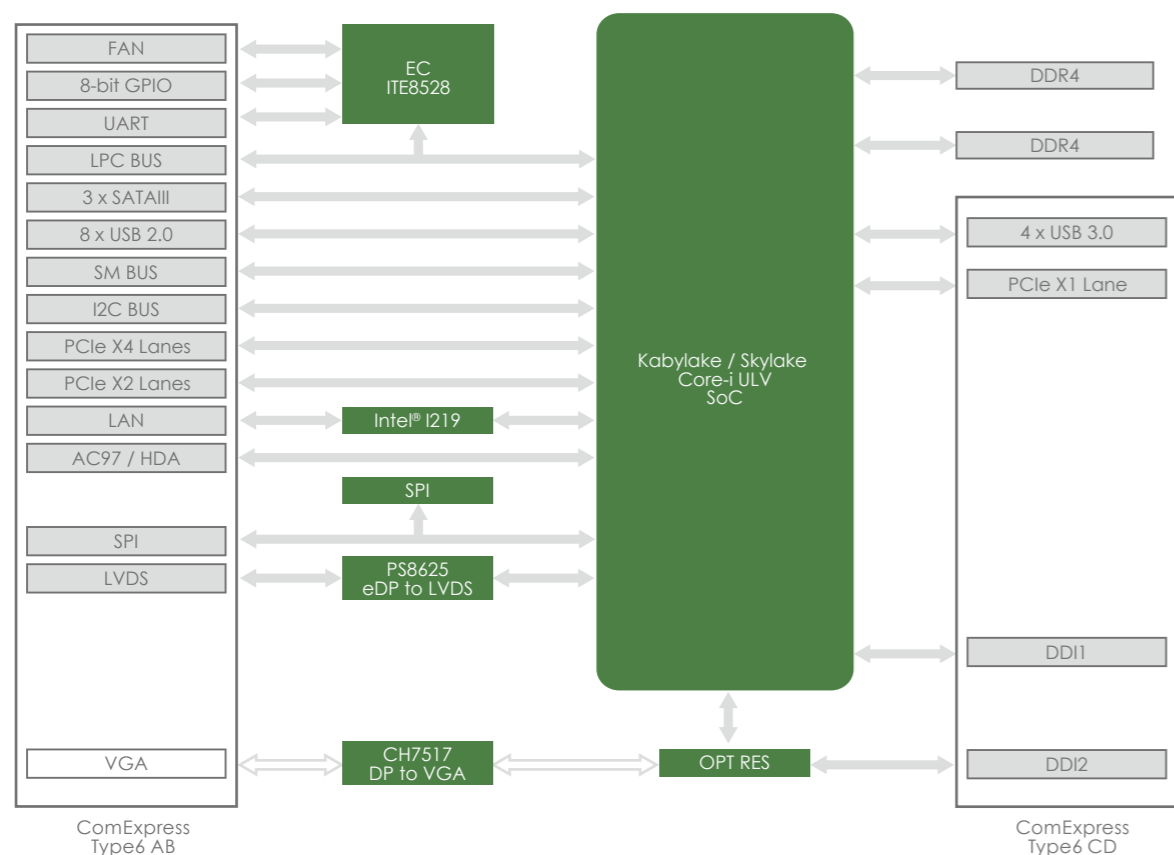


SO-DIMM DDR4 socket

Connector Row C/D

Connector Row A/B

Block Diagram



PD10KC COM Express

| MECHANICAL | |
|-----------------------|---|
| Form Factor | COM Express Compact, Type 6; 3.74" x 3.74" (95 mm x 95 mm) |
| SYSTEM | |
| Processor | 7th Gen Intel® Kaby Lake-U i3-7100U (Dual Core, 3MB Cache, 2.40 GHz) Option: Kaby Lake Celeron 3965U / i5-7300U / i7-7600U Skylake Celeron 3955U / i3-6100U / i5-6300U / i7-6600U |
| Chipset | Intel® SoC Integrated |
| Memory | DDR4 2133 / 2400MHz, 2 x 260-pin SO-DIMM, Max. 32GB (Non-ECC) |
| Graphics | Intel® HD Graphics DDI 1 / 2: Support Display Port / HDMI 1.4 / DVI (DP 1.2: up to 4096 x 2304 @60Hz) DDI 2 (BOM Option): Switch to VGA (up to 1920 x 1200 @60 Hz) LVDS: Single / Dual channel 18/24-bit LVDS (up to 1920 x 1200 @60 Hz) |
| LVDS Transmitter | Parade PS8625 |
| Ethernet | 1 x Intel® I219LM Giga LAN |
| Audio | High Definition Audio Interface |
| Embedded controller | ITE IT8528 |
| TPM | Nuvoton NPCT650AAWX TPM2.0 |
| Solid controller | All Solid Capacitors |
| I/O SUPPORT | |
| PCI Express | PCIe Gen 3.0 X7 Lanes |
| SATA | 3 x SATAIII (can be configured as RAID) |
| USB 3.0 | 4 x USB 3.0 |
| USB 2.0 | 8 x USB 2.0 |
| Pin-out Type | COM Express Type 6 Connector |
| LPC | LPC bus (no DMA) |
| I2C | I ² C bus (fast mode, 400 kHz, multi-master) |
| Others | 8-bit GPIO / SMBus / 2-pin UART |
| ENVIRONMENTAL | |
| Operating Temperature | 0 ~ 60°C (32 ~ 140°F) |
| Storage Temperature | -20 ~ 70°C (-4 ~ 158°F) |
| Operating Humidity | 10% ~ 95% R/H, non-condensing |
| Certification | CE & FCC Class B |
| OS | |
| OS Support | Windows® 10 64bit, Linux (support by request) |

Ordering Information

| Model Number | Processor | HS Configuration |
|------------------|---------------|-------------------|
| PD10KC-3965U-HSD | Celeron 3965U | MB + Heatspreader |
| PD10KC-7100U-HSD | i3-7100U | MB + Heatspreader |
| PD10KC-7300U-HSD | i5-7300U | MB + Heatspreader |
| PD10KC-7600U-HSD | i7-7600U | MB + Heatspreader |

Packing List

| Packing | |
|-------------------|------------------|
| • 1 x Motherboard | • 1 x Screw Pack |