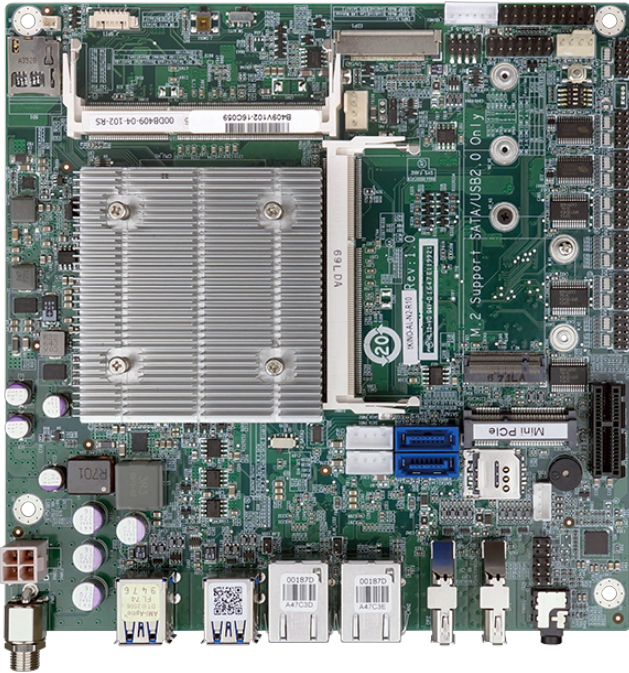


tKINO-AL

Thin Mini-ITX SBC supports Intel® 14nm Atom™, Pentium® or Celeron® on-board SoC with DP++



Features

- » Thin Mini-ITX SBC supports Intel® 14nm Atom™, Pentium® or Celeron® on-board SoC supports dual-channel DDR3L SO-DIMMs
- » Triple independent display support
- » Full size PCIe Mini slot with SIM sockets for WWAN expansion
- » COM, USB 3.0, SATA 6Gb/s and audio support
- » IEI one key recovery solution allows you to create rapid OS backup and recovery

Specifications

| | |
|--------------------------|--|
| System | |
| CPU | Intel® Pentium® N4200 on-board SoC (up to 2.5GHz, quad-core, 2M Cache, TDP=6W) Intel® Celeron® N3350 on-board SoC (up to 2.4GHz, dual-core, 2M Cache, TDP=6W) |
| Memory | Two 204-pin 1867/1600MHz Dual-channel DDR3L DIMMs |
| Memory Max. | 8GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 170 X 170 |
| Net Weight | 700 |
| Storage | |
| Storage | 2 x SATA :6Gb/s with 5V output |
| I/O Interface | |
| Display Output | 1 x eDP 4 lane (up to 3840x2160@60Hz) 2 x DP++ (up to 4096x2160@60Hz) |
| Audio | Description: Realtek ALC662 HD codec 1 x Line out :on rear IO 1 x Front Audio :2x5 pin |
| I/O Interface | 4 x Internal RS-232 :2x5 pin, P=2.0 2 x Internal RS-232/422/485 :2x5 pin, P=2.0 2 x Internal USB 2.0 :2x4 pin, P=2.54 1 x PS/2 :1x6 pin |
| Expansion | 1 x PCIe x1 1 x PCIe mini Card Slot :w/ SIM holder 1 x M.2(NGFF) :B key (2242/2260/2280, USB 2.0 & colay SATA2) |
| Other Features | |
| TPM | 2x10 pin |
| Power | |
| Power Consumption | 12V@2.58A (Intel® Pentium® N4200 CPU with two 8GB 1600MHz DDR3L memory) |
| Power Supply | 12V only DC input as Default, 1 x Internal power connector (2x2 pin), 1 x External DC power Jackc (Ø5.5mm), Support AT/ATX mode |

| | |
|-----------------------|--------------------------|
| Environment | |
| Operating Temperature | -20°C ~ 70°C |
| Storage Temperature | -40°C ~ 85°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

Ordering Information

| | |
|-----------------|--|
| tKINO-AL-N2-R10 | Thin Mini-ITX SBC supports Intel® 14nm quad-core Pentium® N4200 2.5GHz on-board SoC with DP++, Dual PCIe GbE, USB 3.0, PCIe Mini, M.2, SATA 6Gb/s, COM, Audio and RoHS |
| tKINO-AL-N1-R10 | Thin Mini-ITX SBC supports Intel® 14nm dual-core Celeron® N3350 2.4GHz on-board SoC with DP++, Dual PCIe GbE, USB 3.0, PCIe Mini, M.2, SATA 6Gb/s, COM, Audio and RoHS |

Packing List

| | |
|--|-------------------------------|
| 1 x tKINO-AL single board computer with heatsink | 1 x SATA with power cable kit |
| 1 x I/O Shielding | 1 x QIG |