

ACOM-12004

Quad-core Intel Atom® Processor SoC Mini
Size Type 10 Module COM Express



FEATURES

- Quad-core Intel Atom® Processor SoC, Burst Frequency up to 3.0GHz.
- Intel® Gen11 LP GFX for AI inference based on OpenVINO.
- In-band ECC, up to 16GB LPDDR4 at up to 4267 MT/s.
- TCC and 2.5GbE with TSN.
- Real-time I/O via ARM Cortex-M7 processor.
- USB 3.2 10Gbps.

ACOM-12004	
CPU	Quad-core Intel Atom® Processor SoC, Burst Frequency up to 3.0GHz
DIMENSION	84 mm x 55 mm
BIOS	AMI UEFI with CMOS backup in 32 or 16MB SPI BIOS
RAM	LPDDR4 soldered memory up to 4267 MT/s, IB ECC/non-ECC up to 16GB
ETHERNET	2.5Gbit/s and 1000/100/10 Mbit/s Ethernet connection
GRAPHICS	Intel® Gen11 LP Graphics Core Architecture
PCIe	4 PCIe x1 Gen3
DDIO	1
DVI	1
HDMI	1
SATA	2x SATA 6Gb/s (SATA 0,1)
USB	2x USB 3.2/2.0/1.1 (USB 0,1,) and 6x USB 2.0/1.1
LVDS/eDP	Single channel 18/24-bit LVDS via eDP-to-LVDS IC (max. resolution 1920x1200 @60Hz in dual mode)
SERIAL	2x UART ports with console redirection
LPC BUS	1
SMBUS	1
AUDIO	Intel® HD Audio integrated in SoC
GPIO	4x GPO and 4x GPI from EC
TPM	TPM 2.0, Infineon
POWER INPUT	ATX: 12V±5% / 5Vsb ±5%; or AT: 12V±5%
RELATIVE HUMIDITY	5-90% RH operating, non-condensing , 5-95% RH storage (and operating with conformal coating)
STORAGE TEMPERATURE	-20°C to 80°C
OPERATING TEMPERATURE	-40°C to 85°C
OS SUPPORT	Windows 10 IOT Enterprise 64-bit, Windows 10 64-bit, Yocto Linux 64-bit, VxWorks 64-bit (TBC), Ubuntun (TBC), Yocto project-based Linux 64-bit
CERTIFICATIONS	CE, FCC
WARRANTY	2 Years