



FEATURES

- Intel Atom® E3900 series (formerly Apollo Lake) and Pentium®/Celeron® SoC, supporting full virtualization (VT-d/VT-x).
- Up to 8GB Dual Channel soldered non-ECC DDR3L at 1867/1600MHz.
- Newest Intel® Gen9 Low Power graphics, up to 4k resolution and H.265 codec.
- Multiple PCIe x1 Gen2 (configurable to x2, x4), GbE.
- Two SATA 6 Gb/s, two USB 3.0 and six USB 2.0, eMMC 5.0 (build option).
- Supports Smart Embedded Management Agent (SEMA) functions.
- Extreme Rugged operating temperature: -40°C to +85°C (build option for E3900 series SKUs).

ACOM-12005	
CPU	Intel Atom® E3900 series (formerly Apollo Lake) and Pentium®/Celeron® SoC
DIMENSION	84 mm x 55 mm
BIOS	AMI EFI with CMOS
RAM	Up to 8 GB Dual channel DDR3L at 1867/1600 MHz
ETHERNET	Intel® Ethernet Controller I210, Intel® Ethernet Controller I211
GRAPHICS	Intel® Generation 9 LP Graphics Core Architecture,
PCIe	Multiple PCI Express x1 Gen2
DDIO	1
HDMI	1
DVI	1
SATA	2* SATA ports SATA 6Gb/s (SATA0,1)
USB	2x USB 1.1/2.0/3.0 (USB 0,1) and 6x USB 1.1/2.0
LVDS	Single channel 18/24-bit LVDS from eDP-to-LVDS IC
eDP	4 lane support (build option, in place of LVDS)
LPC BUS	1
SM BUS	1
SERIAL	2 UART ports
AUDIO	Intel® HD Audio integrated in SoC, On carrier miniBASE-10R
GPIO	4 GPO and 4 GPI
TPM	TPM 2.0, Infineon
POWER INPUT	ATX: 12V±5%, 5Vsb ±5%; AT: 12V±5%
RELATIVE HUMIDITY	5-90% RH operating, non-condensing 5-95% RH storage (and operating with conformal coating)
STORAGE TEMPERATURE	0°C to 60°C
OPERATING TEMPERATURE	-45°C to +85°C
OS SUPPORT	Windows 10 64-bit, Yocto project-based Linux 64-bit, VxWorks 64-bit
CERTIFICATIONS	CE, FCC
WARRANTY	2 Years