3.5” Embedded SBC with Intel® Celeron® Processor J1900/J1800, LVDS, VGA, DisplayPort, 3 GbE LANs and Audio

Features
- Intel® Celeron® processor J1900/J1800
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 USB 2.0 and 1 USB 3.0
- 3 GbE LANs
- M.2 Key E
- M.2 Key B

Core System
- CPU: Intel® Celeron® processor J1900/J1800 onboard
- System Memory: 1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
- Chipset: SoC integrated
- BIOS: AMI
- SSD: 1 x M.2 Key B (SATA, USB 2.0) in 22 x 42 or 30 x 42
- Watchdog Timer: 255 levels, 1 to 255 sec.
- Expansion Interface: 1 x M.2 Key E (PCIe x1) in 22 x 30
- Battery: Lithium Lithium 3V/220Mah
- Power Input: 2 x 2 pin connector
  +12 VDC-in
- AT Auto Power On function supported
- Power Requirements:
  - Intel® Celeron® J1800 @ 2.41 GHz 8GB DDR3L
    Max RMS: +12V @ 1.2A
  - Intel® Celeron® J1900 @ 2.5 GHz 8GB DDR3L
    Max RMS: +12V @ 1.2A
- Dimensions: 146 x 104 mm
- Board Thickness: 1.6 mm
- Operating Temperature: -20°C to +70°C (-4°F to 158°F)
- Humidity: 10% to 95% relative humidity, non-condensing

I/O
- SATA: 1 x SATA-300
- Hardware Monitoring: Detect CPU/system temperature and voltage
- Ethernet: 2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT, supports Wake-on-LAN, PXE Boot ROM
  1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT, supports Wake-on-LAN, PXE Boot ROM (optional)
- Audio: HD Codec audio as MIC-in/Line-in/Line out with Realtek ALC682
- USB: 2 x USB 2.0
- Serial: 1 x RS-232/422/485
- TPM: N/A
- SIMBus: Yes
- Others: N/A
- Digital I/O: 8-channel in/out programmed

Display
- Chipset: Intel® integrated Gfx graphic engine
- Memory Size: Share system memory
- Display Interface:
  1 x DisplayPort
  1 x LVDS; 18/24-bit single/dual channel
  1 x VGA

Packaging List

Standard
- Quick installation guide
- User’s Manual/Utility CD

Ordering Information

Standard
- CAPA84RPGGA-J1900 (P/N: E38E84R102)
  3.5” embedded SBC with Intel® Celeron® processor J1900
  (2.0 to 2.5 GHz, 2MB Cache, 10W), LVDS, VGA, DisplayPort, 3 GbE LANs, and audio without heatsink
- CAPA84RPGGA-J1900 with heatsink
  (P/N: E38E84R103)
  3.5” embedded SBC with Intel® Celeron® processor J1900
  (2.0 to 2.5 GHz, 2MB Cache, 10W, LVDS, VGA, DisplayPort, 2 GbE LANs, audio and heatsink
- CAPA84RPGGA-J1800 (P/N: E38E84R101)
  3.5” embedded SBC with Intel® Celeron® processor J1800
  (2.41 to 2.58 GHz, 1MB Cache, 10W), LVDS, VGA, DisplayPort, 2 GbE LANs, audio and heatsink
- CAPA84RPGGA-J1800 with heatsink
  (P/N: E38E84R107)
  3.5” embedded SBC with Intel® Celeron® processor J1800
  (2.41 to 2.58 GHz, 1MB Cache, 10W, LVDS, VGA, DisplayPort, 3 GbE LANs, audio and heatsink

Optional
- CAPA84RP3GA-J1900 (P/N: E38E84R100)
  3.5” embedded SBC with Intel® Celeron® processor J1900
  (2.0 to 2.5 GHz, 2MB Cache, 10W, LVDS, VGA, DisplayPort, 3 GbE LANs, and audio without heatsink
- CAPA84RP3GA-J1900 with heatsink
  (P/N: E38E84R104)
  3.5” embedded SBC with Intel® Celeron® processor J1900
  (2.0 to 2.5 GHz, 2MB Cache, 10W, LVDS, VGA, DisplayPort, 3 GbE LANs, audio and heatsink
- CAPA84RP3GA-J1800 (P/N: E38E84R106)
  3.5” embedded SBC with Intel® Celeron® processor J1800
  (2.41 to 2.58 GHz, 1MB Cache, 10W), LVDS, VGA, DisplayPort, 3 GbE LANs, audio and heatsink
- CAPA84RP3GA-J1800 with heatsink
  (P/N: E38E84R108)
  3.5” embedded SBC with Intel® Celeron® processor J1800
  (2.41 to 2.58 GHz, 1MB Cache, 10W, LVDS, VGA, DisplayPort, 3 GbE LANs, audio and heatsink

- 7118E84R000E Heatsink
- 7128E84R000E Heatspreader
- 56312260020E Audio cable with bracket, P=1.25 mm, L=450 mm
- 50380880250E COM Port cable DB9-9 x 1-pin, P=1.25, L=250 mm
- 59382631000E 2 x USB 2.0 cable with bracket, L=180 mm
- 594P8800600E SATA power cable
- E393A19100 AX93A19 SIM card slot board