intel® **IoT Solutions Alliance**

Portwell Industrial Computing Solutions
Star Products Portfolio & Solutions Guide

ROBO-8116G2AR

Intel® 12th Generation Core™ processor based on PICMG 1.3 SHB with DDR5 SDRAM, HDMI, DVI-D, DP, Dual Gigabit Ethernet, Audio and USB

FEATURES

- Supports Intel® 12th Generation Core processors Family in LGA 1700 package
- Delivers up to 64GB maximum DDR5 4800 ECC/Non-ECC SODIMM on two sockets
- Supports multiple display by DVI-D, DP and HDMI
- High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- Support two USB 3.2(Gen2) & one USB 3.2(Gen2 x2) type-C port on bracket
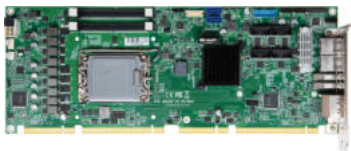
PBPE-19AG64

19-slot [PCIe x16 (1, x8 signal), PCIe x8 (1, x4 signal), PCI-X (16)]

FEATURES

- Fit for 4U up chassis
- Four PCI-X buses support 16 PCI-X expansion slots

RUBY-D813-H610E

RUBY-D813 is based on Intel® H610E chipset and Desktop processors including Intel® 12th Gen Core™ i3/i5/i7/i9Sku.This board supports DDR4, PCIe, and SATAIII. Those features help you to build high performance and stable system.

FEATURES

- Intel® 12th Gen Core™ Processors support
- Two Long-DIMM support DDR4 Non-ECC DRAM up to 64GB
- Support dual Ethernet, 6x COM Ports, 4x USB 3.2 Ports , 4x SATA III Ports and Audio
- TwoPCIe x16, one PCIex1, four PCI slots, one M.2 (Type M) type 2242/2260/2280

PANEL PC SOLUTION

FUDA3

IIntel® Atom™ x7-E3950 (Quad Core, 2M Cache, up to 2.0 GHz) 5-Wire Resistive Single Touch, IP65 (Front) / IP20 (Rear), IEC 60529 Edition 2.1 Standard

FEATURES

- A Rugged Fan-less and Cable-less Touch Panel PC
- Industrial panel display from 10.4″ to 15″ (4:3)
- Available for both Resistive single touch screen and P-CAP multi-touch screen
- Wide Operating Temperature Support with Fan-less Design (-25~60)
- Wide DC 12~24V Input

COMBO

NXP® i.MX 6 series application processors based compact industrial Panel PC series with multi-touch projected capacitive (PCAP) touch screen, wide temperature and voltage support and IP65 front and IP20 rear protection in 7" and 10.1"

FEATURES

- NXP® i.MX 6 series application processors (Cortex™-A9)
- Support Linux OS, Yocto Project etc.
- CAN bus connectivity supported
- DDR 3 up to 2GB
- HDMI input and output
- Fan-less design with wide operating temperature support, -20°C to 60°C

ANS-8A62/64P

Intel® Denverton C3758/ C3558 processor with up to eight CPU cores. ANS Denverton series is a compact system with up to 2x SFP+, 13x GbE ports and PoE+ support, it is suitable for SDN (SD-WAN) application with 5G and IoT devices deployment.
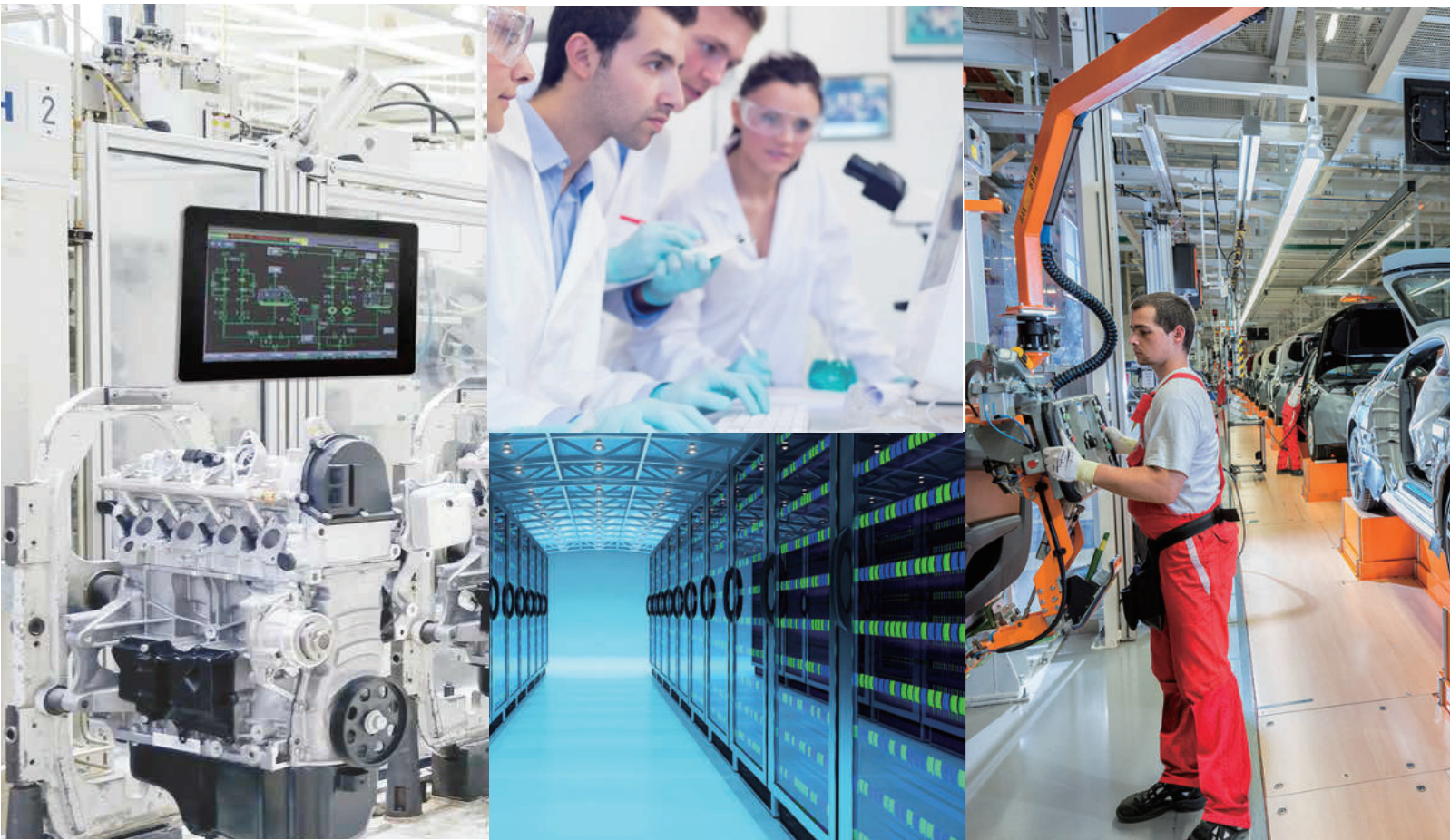
FEATURES

- Intel Atom™ C3758(8C)/ C3558(4C) Processor (Denverton)
- 2x 10Gb SFP+, 1x GbE RJ45 Marvell 88E1514, 12x GbE
- RJ45 RTL8111H (with PoE+ support by SKU)
- 1x RJ45 Console, 2x USB3.0
- DDR4 2400/2133MHz (by SKU), Dual SO-DIMM(support ECC), MAX. 32GB
- Compact design for Half-Rack mount

Portwell India Technology

7/3, 3rd floor, Jeet Dynasty, Swamy Vivekananda Rd, Nagavarapalya, Bengaluru - 560093
Tel: +91 -80 40782700/68232700
info@portwell.in | www.portwell.in

PCOM-B645VGL

Type 6 compact COM Express® (95 x 95 mm) module which based on Intel Atom® x6000E and Pentium® N and J Series Processors

FEATURES

- Intel Atom® Processor x6000E Series (Formerly Elkhart Lake)
- DDR4-3200MT/s SDRAM up to 32GB with In-Band ECC support
- Triple 4K displays, VGA, LVDS/eDP, DP/HDMI interfaces
- Optional eMMC storage
- Industrial temperature range from -40°C to 85°C on selected SKUs

PCOM-B657VGL

COM Express® Type VI Basic Module with 11th Gen Intel® CoreTM Processors (Tiger Lake-H) DDR4, PCIe Gen 4, USB 3.2 Gen 2, 2.5 Gigabit TSN Ethernet, SATA III, TPM 2.0, DDI, eDP/LVDS and VGA

FEATURES

- Intel® Core™, Xeon® W-11000E Series, and Celeron® processors in 10nm Super Fin Process
- 2x DDR4-3200 ECC/Non-ECC SO-DIMMs, up to 2x 32GB
- AI/DL Instruction Sets (Intel® VNNI, AVX-512, INT8, FP16), up to 8C/16T@45Wand 25W
- 1x PCIe Gen 4 x16, 8x PCIe Gen 3 x1, 4x USB 3.2 Gen 2, 8x USB 2.0, 2.5GbEwith TSN
- 4x Independent Displays: 3x DDI, eDP/LVDS, VGA

PCOM-BA02GL

PCOM-BA02GL, a Type 10 Mini COM Express® (84 x 55mm) module is based on Intel Atom® x6000E and Pentium® N and J Series Processors, featuring LPDDR4-3200 MT/s on board memory, dual 4K display.

FEATURES

- Intel Atom® Processor x6000E Series (Formerly Elkhart Lake)
- LPDDR4-3200 MT/s on-board memory up to 8GB with In-Band ECC support
- Dual 4k Display, eDP/LVDS/HDMI/DPI interfaces
- 4x PCIe 3.0 x1, 2x USB 3.1, 8x USB 2.0 and 2x SATA III
- Industrial temperature range from -40°C to 85°C on selected SKUs

PQ7-M109

Portwell's PQ7-M109 is designed with latest Intel Atom®/Celeron®/Pentium® processor (codenamed Elkhart Lake), featuring 2x graphic performance and 1.5x overall CPU performance improvement than previous generation platform.

FEATURES

- Intel Atom® / Celeron® / Pentium® processors
- Onboard LPDDR4 SDRAM up to 8GB
- 24-bit LVDS, HDMI/DisplayPort interface
- 4x PCI Express 3.0 x1 lanes
- Support 2x USB 3.2 Gen 1 / 6x USB 2.0
- Onboard eMMC 5.1 (optional)

PSMC-M840

The PSMC-M840 SMARC 2.1 module is designed with NXP i.MX 8M Plus family processor, featuring high graphic performance and great memory bandwidth.

FEATURES

- NXP i.MX 8M Plus ARM Cortex-A53 Quad LITE/ Quad processors
- Support LVDS, HDMI, DSI graphic output
- Support one PCI Express Gen3 single lane, two GbE
- Support two USB 3.0, two USB 2.0
- Options for eMMC 5.1 storage

AREMO-4196

The Best Cost-Performance 19" 4U Height Intel® Desktop Mother Board Based Rack-mount computer

FEATURES

- Selectable Mother board either Mother Board / SBC Version
- Three 5.25" and one external 3.5" HDD drive bays for RAID 0, 1, 5 & CD-ROM
- Two USB ports on the front panel
- Dual 12cm ball-bearing cooling fans for better ventlation
- Two card retainer positions
- PS/2 or redundant power supply installable

WEBS-85H2

Intel® desktop W480E chipset and 10th Generation Intel® Core™ i3/i5/i7/i9 processors technologies that can support dual DDR4 memory, three Gigabit Ethernet ports, one M.2 E Key socket, one Mini-PCIe socket and 3x PCIe Expansion Slot option.

FEATURES

- 10th Generation Intel® Core™ i3/i5/i7/i9 processors
- Different add-on card expansion options
- Support 64 GB DDR4 2400/2666 Non-ECC SDRAM
- Triple 4K displays including HDMI 1.4, HDMI 2.0, DP 1.2
- Mini-PCIe socket, M.2 2242/60/80 M key socket and M.2 2230 E key socket
- 4x COM ports (1x RS-232/422/485, CANbus (2.0 A/B) selected by on board jumper)

WEBS-2110

Designed with Intel Atom® x6000E Series processors (formerly Elkhart Lake), Portwell's rugged & compact WEBS-21I0 supports a wide industrial temperature range from -20°C to 60°C.

FEATURES

- Intel Atom® Elkhart Lake Dual/Quad-core™ x6000E Series SoC
- Support 1x 2.5" HDD/SSD, 1x mSATA, 1x Micro SD
- Triple Display by VGA, DP, HDMI
- 1x M.2 and 1x Full-size Mini-PCIe socket (Choose either mSATA or mini-PCIe by BIOS)
- Support Wall mount and DIN Rail mount
- Wide Operating Temperature support (-20~60°C) with Fan-less design

LYNX 612E

LYNX-612E is a compact, fan-less and cable-less PC adopting low power Intel® Apollo Lake processor. With small dimension, DIN-rail mounting and wide voltage DC input, it can easily fit in industrial environment.

FEATURES

- Intel® Celeron® Processor
- Supports 2x LAN and 1x M.2 for wireless module
- Extended I/O interface of RS-232/422/485
- Heavy Industry EMC standard
- Supports customized appearance (Optional)
- Supports extended temperature (Optional)

KUBER-212H

Ultra-small form factor IPC designed as a compact industrial IoT gateway with multiple RS485 COM ports, USB ports, and M.2 and Mini-PCIe interfaces

FEATURES

- Intel® Celeron® processors (formerly Apollo Lake), 2 cores, 1.1GHz/2.4GHz, 6W TDP
- 4GB onboard LPDDR4 memory
- 32GB onboard eMMC 5.0 storage
- Supports 2x GbE, 2x USB 3.0, 1x DP, 4x RS485 (terminal type)
- Easy accessible LTE SIM socket on the front panel
- Expansion with M.2 and m-PCIE for wireless communication