Application Note
Portwell, Inc.

Portwell

New Era Solutions ANS-8A62/64P with Inbuilt Intel Atom® C3000 Processor Series Features Higher Computing in SD-WAN, Edge Computing, and IoT Application

ANS, the Answer to Building Your Network Infrastructure

Situation

Nowadays, SD-WAN, software-defined wide area network, is a service where we apply SDN technology to a wide area network. It is used to connect a wide range of corporate networks, data centers, internet applications and Cloud services, which aim to help reduce WAN's operation cost and improve connection flexibility. Nowadays, with the significant network transformation, more and more applications will depend on the Cloud to process data. It also brings the escalating demands for network security as these data on the Cloud may contain end users' personal ID, credit card number and other private information.

To meet the demand of enterprise environment such as low power consumption, sufficient I/O, high computing power and small size fitting in limited space, Portwell's ANS-8A62/64P could be the ideal solution for bridging both sides.

Solutions

ANS-8A62/64P built-in Intel Atom® platform (C3558(4C)/ C3758(8C)), which supports Intel® QAT, DPDK and Open vSwitch, provides you high security with encryption/decryption functionality.

With a maximum of 12 ports GbE (Gigabit Ethernet) in wire speed and 2 ports SFP+ 10GbE, ANS-8A62/64P satisfies the need for up/downstream channels. Moreover, ANS-8A62/64P supports up to 12 ports PoE/PoE+ with API that allows users to connect power-required devices (PD), such as IP/AI camera and other controllers, to explore a wider scene of application as in factory, office, enterprise, and more.

The Intel Atom® C3000 processor series features industry-leading performance, low thermal design power (TDP) and configurable high-speed I/O, which make it an ideal selection to speed up innovation in networks, storage devices, Internet of Things (IoT) and scalable solutions. Besides, Intel Atom® C3000 processor series is equipped with Intel® QuickAssist Technology (Intel® QAT). With Intel® QAT engine, functions such as IPSec operation, data encryption, decryption and compression can be handled independently. In addition, it spares the CPU resource for other critical workloads and eventually optimizes the overall work efficiency and performance.

SD-WAN is a burgeoning market. With more than 25 years Industrial experience and plentiful knowledge in different market segments, Portwell is confident to bring you robust and competitive solutions to help you build your network system and achieve prosperity.

ANS-8A62/64P

Compact System with Intel Atom® C3758(8C)/ C3558(4C) Processor for SD-WAN Solution.

- 2x 10Gb SFP+, 1x GbE RJ45, 12x GbE RJ45 (with PoE+ support by SKU)

- 1x RJ45 Console, 2x USB3.0

- 2 x DDR4 2400/2133 MT/s ECC SO-DIMM up to 32GB

- 1x TPM2.0(on-board)

- 1x Mini-PCIe(PCIe/ USB2.0), 1x M.2 Key-B Slot(PCIe/ USB3.0), 1x SATADOM

- Design ready for 5G and Wi-Fi 6 (802.11ax)

- Compact design 2 in 1U rackmount

ANS-8A62/64P

Compact System with Intel Atom® C3000
Processor Series for SD-WAN Solution

About Portwell

Portwell, Inc., founded in 1993, has focused herself towards a high-technology scope that brings company value through the state-of-the-art. For the past years, continuous leading product development and revenue growth have made Portwell a major Mission-Critical Application Platform Provider in the world. The in-house design of industrial computers and application platforms by Portwell has also been targetted to meet our customer needs for flexibility. Portwell, Inc., an IoT Solutions Titanium Partner of the Intel® Partner Alliance, a community of communications and embedded developers and solution providers, designs and manufactures Communication Appliances along with a full range of Industrial Platform Service (Computer on Module, Embedded Computing, Industrial Computer), Communication Appliance Service (Software Defined Wide Area Network, ANS series, AnnA ANS Network Associate), Vertical Market Service (Advanced Network Solutions, Gaming, Medical, industrial Automation, Smart Transportation, Energy, Smart Manufacturing, Internet of Things(IoT), AI Solutions, Mobility & Barcoding Solutions, EMS/DMS), Panel Device Service (Panel PC, LEAD Series) . With streamline access to the latest Intel technology, we paved the way with the broadest array of building blocks, delivering cutting-edge solutions to meet and even exceed the demanding needs of the ever-changing telecommunication, medical electronics, industrial automation, defense and life automation markets. Committed to supplying customers with a one-stop shopping approach of full product selection, competence and sophisticated customer support, Portwell helps all our customers pave the royal road to success and stay ahead of competition.

Portwell

intel. partner Titanium IoT Solutions

Portwell, Inc., an IoT Solutions Titanium Partner of the Intel® Partner Alliance, designs and manufactures a full range of IPC products (SBC, backplane, redundant power supply, rack mount & node chassis), embedded architecture solutions, DVR system platforms and communications appliances. We provide complete R&D and project management services to decrease customers' time to market, and reduce project risk and cost. Portwell is also an ISO 13485, ISO 9001 and ISO 14001 certified company that deploys quality assurance through product design, verification and manufacturing cycles.

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