



RCC-VE Network Board

Intel® Atom C2000 x86 Network Board with 4 or 6 RJ45 GbE Ports

Product Description

Silicom's RCC-VE is a low cost Mini-ITX edge device based on the Intel Atom C2000 for OEMs taking intelligent, virtualized CPE, security, small cell, or other edge products to market.

With the support of the Intel Edge Cloud SDK, RCC-VE offers a comprehensive environment for rapid development of innovative virtualized applications and services at the network edge with reduced time to market.



Key Features

- Intel Atom C2000 Board for NFV Edge, CPE, Wireless
- Mini-ITX Form Factor (170x170mm)
- 6x Intel 1Gb Ethernet
- 2x mPCIe
- mSATA
- eMMC flash storage on board
- Robust and Low Cost, Rapid OEM Customization

Technical Specifications

General Technical Specifications	
Form Factor	Mini-ITX 170x170mm
CPU	Intel® Atom™ C2358 (2x 1.7 GHz, 1MB cache, 7W, QuickAssist, AES-NI) Intel® Atom™ C2558 (4x 2.4 GHz, 2MB cache, 15W, QuickAssist, AES-NI) Intel® Atom™ C2758 (8x 2.4 GHz, 2MB cache, 20W, QuickAssist, AES-NI)
DRAM	2GB, 4GB, 8GB or 16GB DDR3L up to 1600MT/s, Memory down (not user expandable), optional ECC
Ethernet	2x RJ45 via Intel i211 + 4x RJ45 via Intel i354 on-chip (All SKUs except VE-xxx1) 2x RJ45 via Intel i211 + 4x SFP via Intel i354 on-chip (VE-xxx1 only)
Storage	eMMC on-board: 4, 8, 16, 32, or 64GB mSATA slot for expansion

I/O Connectors	USB 2.0 host (2x) Up to 2x SATA3 Up to 3x SATA2 MiniPCI Express 2x (1x with micro-SIM slot) (Not present on VE-xxx1 SKUs)
Console	Serial over Mini-USB
Management	On-board IPMI + NC-SI based board management controller (VE-xxx1 only)
Boot Loader	CoreBoot / SeaBIOS
Power	12VDC via 2.5mm coaxial plug Single ATX power input (VE-4860 and VE-8860) Dual redundant 12V power inputs with automatic on-board failover switching (VE-xxx1 only) 20W max for board only, 40W including max peripheral power
Temperature	Fanless operating temperature: 0-65C (2-core), 0-45C (4-core) Fansink required for 8-core CPUs Storage: -20-85C
Certifications	FCC Part 15 Class B CE Class B IC Class A IEC-60950 RoHS/WEEE

Order Information

P/N	Description
80300-0095-G02	<ul style="list-style-type: none"> - C2358 CPU (2x 1.7 GHz + QuickAssist, AES-NI) - 4GB DDR3L - 4x Gb Ethernet RJ-45 - 2x mPCIe - 4GB eMMC - Mini-USB console - mSATA - 2x USB 2.0 host - 2.5mm power input jack
80300-0095-G13	<ul style="list-style-type: none"> - C2358 CPU (2x 1.7 GHz + QuickAssist, AES-NI) - 4GB DDR3L - 4x Gb Ethernet RJ-45 - 2x mPCIe - 32GB eMMC - Mini-USB console - mSATA - 2x USB 2.0 host - 2.5mm power input jack
80300-0095-G03	<ul style="list-style-type: none"> - C2558 CPU (4x 2.4 GHz + QuickAssist, AES-NI) - 8GB DDR3L

	<ul style="list-style-type: none"> - 6x Intel Gb Ethernet RJ-45 - 2x mPCIe - 32GB eMMC - Mini-USB console - mSATA - 2x SATA3 - 2x USB 2.0 host - Fan controller - ATX power input connector
80300-0095-G08	<ul style="list-style-type: none"> - C2558 CPU (4x 2.4 GHz + QuickAssist, AES-NI) - 8GB DDR3L - 6x Intel Gb Ethernet RJ-45 - 2x mPCIe - 32GB eMMC - Mini-USB console - mSATA - 2x SATA3 - 2x USB 2.0 host - Fan controller - 2.5mm power input jack
80300-0095-G04	<ul style="list-style-type: none"> - C2758 CPU (8x 2.4 GHz + QuickAssist, AES-NI) - 8GB DDR3L - 6x Intel Gb Ethernet RJ-45 - 2x mPCIe - 64GB eMMC - Mini-USB console - mSATA - 2x SATA3 - 2x USB 2.0 host - Fan controller - ATX power input connector