



DEV-KIT-COM-HPC-A

Cross Platform Development Kit compatible with both x86 and Arm® COM-HPC® Client modules

Development Kit for COM-HPC® Client Modules



STARTER KIT CONTENTS

Development Kit Contents:

- CCHPC-C78-C Carrier board
- GPIO Header adapter cable (Free wires on one extremity)
- 1x certified High Speed DP cable 1m
- DP-to-HDMI adapter
- 1x Serial Adapter Cables
- 1x SATA cable
- Front Panel module V995 with connecting cables

HIGHLIGHTS

COM-HPC® Client Carrier board

ATX form factor

Especially suited for development and debugging of COM-HPC® Client modules

Separated power supply for COM-HPC® module and carrier board

FEATURES OF CCHPC-C78-C

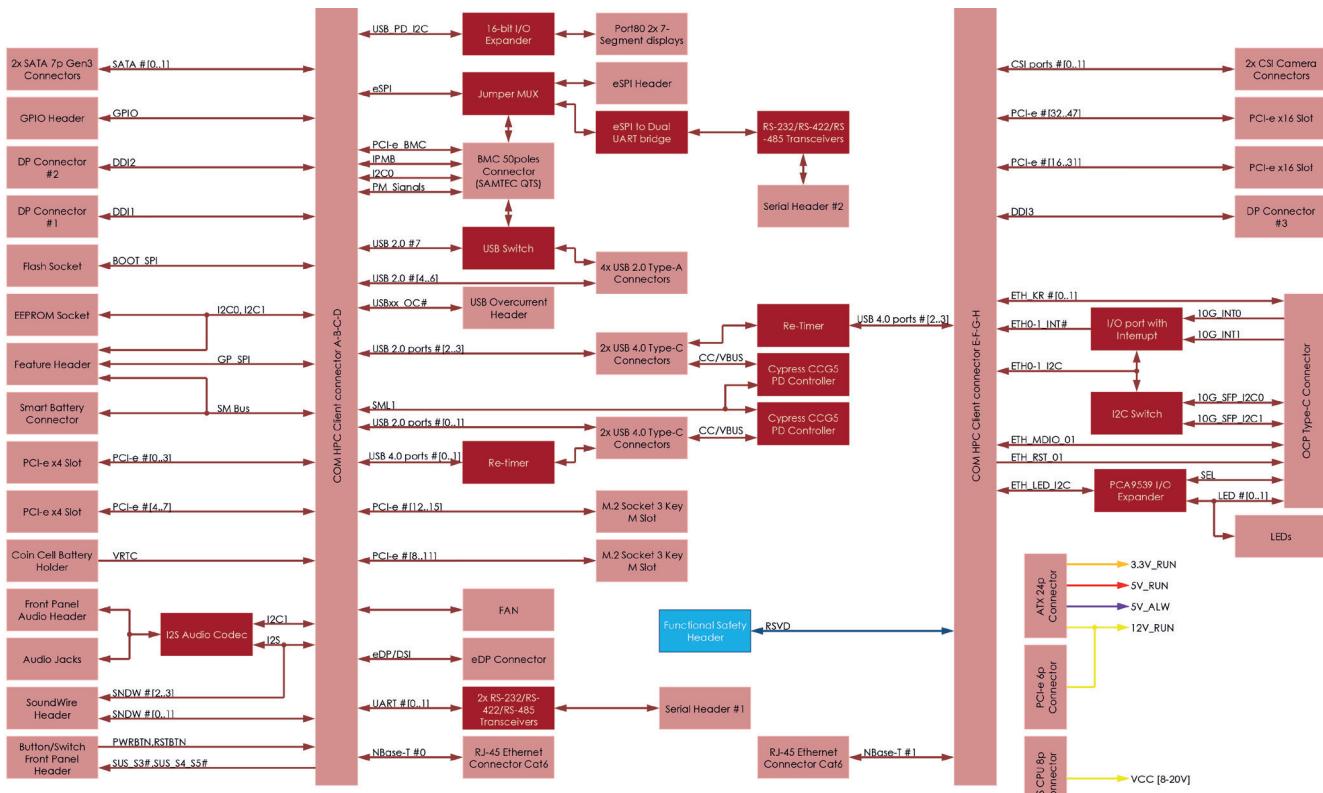
Video Interfaces	1x 40-poles eDP/DSI connector 3x DP++ connectors 2x CSI Camera Input Connectors	Other Interfaces	BMC connector with SM Bus, I2C, eSPI, 1x USB 2.0, 1x PCI-e x1, 1x UART, 2x GPIO I2C GPIO pin header Boot SPI Internal Header Button / LEDs front panel header 4-pin tachometric FAN connector Feature Pin header with 2xI2C, SM Bus, GP SPI, Management signals I2C Flash Socket SM Bus Smart Battery Connector 2x 7-segment LCD displays for POST codes eSPI internal header Functional Safety (FuSa) internal pin header
Mass Storage	2x S-ATA 7p M connectors 2x M.2 Socket 3 Key M slots for M.2 NVMe Drives		
Networking	2x NBase-T Ethernet RJ-45 connectors 2x 10GbE-KR interfaces on OCP Type-C connector		
USB	4x USB 4.0 / USB 3.2 Gen2x2 ports on Standard Type-C sockets with PD functionality 4x USB 2.0 Host ports on standard Quad Type-A Socket USB Overcurrent pin header		
PCI-e	2x PCI-e x4 Slots 2x PCI-e x4 interfaces on M.2 Socket 3 Key M Slots 2x PCI-e x16 Slot	Power Supply	ATX 24 poles connector for carrier board working only Auxiliary 12V PCI-e 6-pin power connector Dedicated EPS CPU Power in connector (voltage range 8-20V) for COM HPC Client module's working Cabled Coin-cell connector for RTC
Audio	I2S Audio Codec Line In, Line Out, Mic in Triple Audio jack Mic In + Line Out internal pin header I2S/Soundwire shared interface + Soundwire only interface on internal pin header	Operating Temperature*	-40°C ÷ +85°C (Industrial Temperature range)
Serial Ports	2 x RS-232/RS-422/RS-485 ports on dedicated pin header (from module) 2 x RS-232/RS-422/RS-485 ports on dedicated pin header (from eSPI Dual UART controller)	Dimensions	305x244mm (ATX form factor, 12" x 9.6")

*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

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BLOCK DIAGRAM



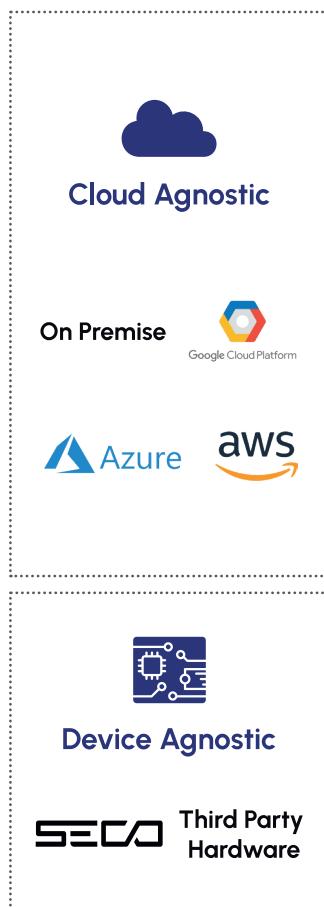
Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.



DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.

SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

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