ECUcore

32-BIT SINGLE BOARD COMPUTER SUBASSEMBLIES

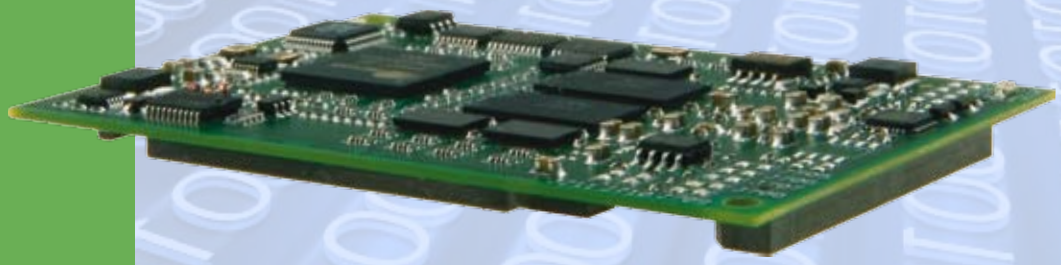
SYS TEC ELECTRONIC

HARDWARE

OPERATING SYSTEMS

MIDDLEWARE

INTEGRATED DEVELOPMENT ENVIRONMENT



Order Information
For available options and prices please

Insert-ready 32-bit Single Board Computers

Based on the accumulated experience of numerous customer projects, the ECUcore series combines a state-of-the-art hardware design with integrated operating system and extended software support.

ECUcore-5484

Focusing on applications that require a high degree of embedded computing power, the ECUcore-5484 combines a fast CPU, a performance optimized memory layout and a variety of communication interfaces. It targets applications that require high-speed data acquisition and real-time communication, such as Ethernet POWERLINK.

ECUcore-9G20

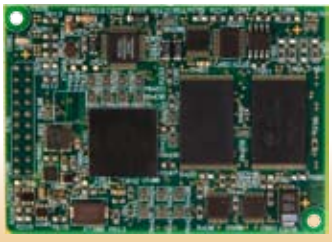
Based on a fast ARM9 CPU, the ECUcore-9G20 combines outstanding performance and features required to build embedded applications for sophisticated machine controls. Besides Ethernet and CAN, the board is equipped with USB2.0 host and device ports. A freely programmable on-board FPGA allows realizing highly complex peripheral units.

ECUcore-5208

The ECUcore-5208 was designed and optimized for typical low-cost applications such as point-of-sale and access control. The board offers numerous communication interfaces and a NAND flash for mass data storage. The address/data bus leading towards the outside provides the most effective degrees of freedom for connecting own in-/output circuits.

ECUcore-1130

Equipped with four CAN interfaces, Ethernet, 3 serial ports, and an on-board FPGA, the ECUcore-1130 is an ideal solution for embedded control applications that require high computing power combined with high demands in networking. In combination with the PXROS-HR operating system this board is predestinated to safety critical applications.



HARDWARE • OPERATING SYSTEM • MIDDLEWARE • IDE
ALL FROM ONE SOURCE

Feature Overview

	ECUcore-5484	ECUcore-9G20	ECUcore-5208	ECUcore-1130
Controller	Freescale MCF5484 with ColdFire V4e Core	Atmel AT91SAM9G20 with ARM926EJ-S Core	Freescale MCF5208 with ColdFire V2 Core	Infineon TC1130 with TriCore V1.2 Core
Frequency (internal)	200MHz	400MHz	166MHz	150MHz
RAM (min/max)	64/128MB DDR-SDRAM	32/64MB SDR-SDRAM	16/32MB SDR-SDRAM	32/64MB SDR-SDRAM
FLASH (min/max)	16/32MB (NOR)	16/64MB (NOR)	4/8MB (NOR) 32/64MB NAND Flash	16/128MB (NOR)
EEPROM	2/32kB (SPI)	-	2/32kB (SPI)	2/32kB (SPI)
Interfaces				
Fast Ethernet	2x 10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps
CAN	2	1	1	4
UART	4	4	3	3
USB	device	2x host, 1 device USB2.0	-	device
SPI	1	1	1	2
I2C	1	1	1	2
Others	-	SSC	-	2x MLI, 2x 16-bit CAPCOM
Board features			-	
DMA	•	•	-	•
MMU	•	•	-	•
Watchdog	•	•	•	•
Temperature Sensor	•	•	•	•
RTC	•	•	•	•
FPGA/PLD	CPLD or FPGA (encryptable)	FPGA (encryptable)	-	FPGA (encryptable)
Operating Temperature	-40°C … +85°C	-40°C … +85°C	-40°C … +85°C	-40°C … +85°C
Operating System	Linux	Linux	µClinux	PXROS
Programmable in	C/C++, IEC61131-3	C/C++, IEC61131-3	C/C++, IEC61131-3	C/C++
Middleware	CANopen Protocol Stack Source Code Ethernet POWERLINK Protocol Stack Source Code			
Integrated Development Environment	Enhanced Eclipse-based integrated development environment (IDE) GNU C/C++ Toolchain Source- and assembly-level debugger Comprehensive user documentation in HTML and PDF			
				

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HongKe 虹科
广州虹科电子科技有限公司
www.hkaco.com

广州虹科电子科技有限公司 广州市五山华南理工大学国家科技园 2 号楼 504-505 室（510640）
电话： 020-3874 4528; 3874 4538 e-mail: sales@hkaco.com 网站：www.hkaco.com