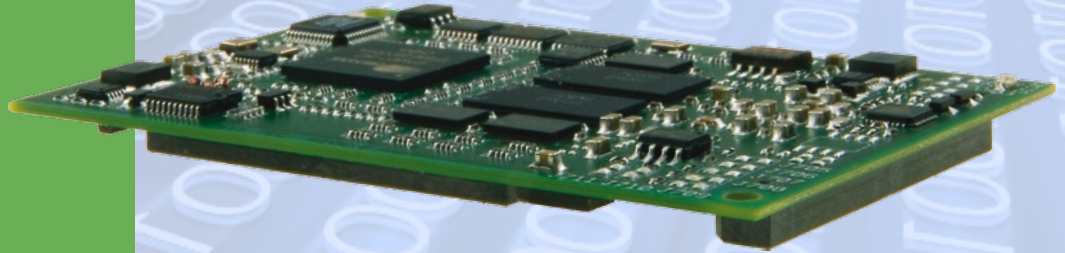


ECUcore

32-BIT SINGLE BOARD COMPUTER SUBASSEMBLIES

SYS TEC
ELECTRONIC

**HARDWARE
OPERATING SYSTEMS
MIDDLEWARE
INTEGRATED DEVELOPMENT ENVIRONMENT**



Order Information

For available options and prices please contact sales@systemec-electronic.com

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-5208

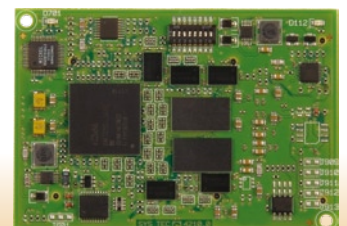
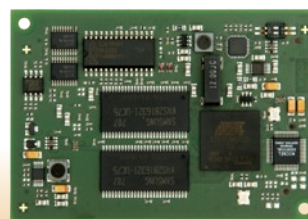
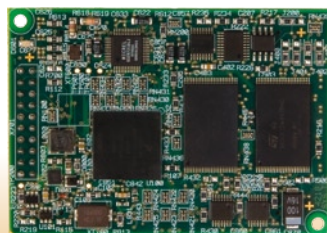
The ECUcore-5208 was designed and optimized for typical low-cost applications such as point-of-sale and access control. The board offers numerous communication interfaces and a NAND flash for mass data storage. The address/data bus leading towards the outside provides the most effective degrees of freedom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

ECUcore-9G20 ECUcore-9263

Based on a fast ARM9 CPU, both ECUcores combine outstanding performance and features required to build embedded applications for machine controls. The boards are equipped with various communication interfaces and a freely programmable on-board FPGA. Additionally, the ECUcore-9263 features an on-board QVGA controller.

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-5208	ECUcore-9G20	ECUcore-9263	ECUcore-1130
Controller	Freescale MCF5484 with ColdFire V4e Core	Freescale MCF5208 with ColdFire V2 Core	Atmel AT91SAM9G20, ARM926EJ-S Core	Atmel AT91SAM9263, ARM926EJ-S Core	Infineon TC1130 with TriCore V1.2 Core
Frequency (internal)	200MHz	166MHz	400MHz	240MHz	150MHz
RAM (default/max)	64/128MB DDR-SDRAM	16/32MB SDR-SDRAM	32/64MB SDR-SDRAM	32/64MB SDR-SDRAM	32/64MB SDR-SDRAM
FLASH (default/max)	16/32MB (NOR)	4/8MB (NOR) 32/64MB NAND Flash	16/64MB (NOR)	16/64MB (NOR)	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	10/100 Mbps
CAN	2	1	1	1	4
UART	4	3	4	3	3
USB	2x host on Baseboard	-	2x host 1 device USB2.0	2x host 1 device USB2.0	device
SPI/I2C	1/1	1/1	1/1	2/1	2/2
Mass storage	SD	SD	SD, MMC	SD, MMC	SD
Others	-	-	SSC	SSC, AC97 CMOS/LVDS-TFT, Video-RAM Touch controller	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	-40°C ... +85°C
Operating System	Linux	µClinux	Linux	Linux, WinCE 6.0	PXROS
Programmable in	C/C++, IEC61131-3	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				
	