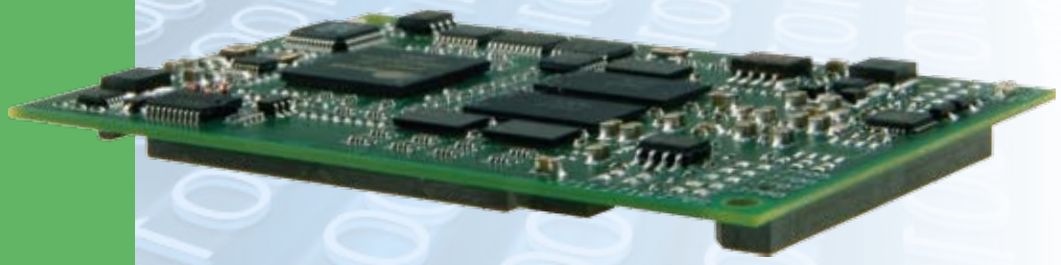
SYS TEC ELECTRONIC

ECUcore

32-bit Single Board Computer Subassemblies

HARDWARE
OPERATING SYSTEMS
MIDDLEWARE
INTEGRATED DEVELOPMENT ENVIRONMENT



Order Information
For available options and prices please contact sales@systec-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-5208

The ECUcore-5208 was designed and optimized to meet the requirements of typical low-cost applications such as point-of-sale and access control. The board offers numerous communication interfaces, a real time clock and an optional NAND flash for mass data storage.

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-1130

Equipped with four CAN interfaces, a 10/100Mbps Fast Ethernet Controller and 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.

ECUcore-9307

Based on a fast ARM920T CPU, the ECUcore-9307 combines outstanding performance and features required to build embedded control applications with HMI. Besides Ethernet and CAN, the board is equipped with three USB2.0 host controller, touch screen, LCD and sound controller.

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

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For a complete list visit: www.systec-electronic.com/distributors

Feature Overview

	ECUcore-5208	ECUcore-5484	ECUcore-1130	ECUcore-9307
Controller	Freescale MCF5208 with ColdFire V2 Core	Freescale MCF5484 with ColdFire V4e Core	Infineon TC1130 with TriCore V1.2 Core	Cirrus Logic EP9307 with ARM920T Core
Frequency (internal)	166MHz	200MHz	150MHz	184MHz (ind. temp.) 200MHz (com. temp.)
RAM (min/max)	16/32MB SDR-SDRAM	64/128MB DDR-SDRAM	32/64MB SDR-SDRAM	32/64MB SDR-SDRAM
FLASH (min/max)	4/8MB (async.) 32/64MB NAND Flash	16/32MB (async.)	16/128MB (sync.)	16/128MB (async.)
EEPROM	2/32kB (SPI)	2/32kB (SPI)	2/32kB (SPI)	2/32kB (SPI)
Interfaces				
Fast Ethernet	10/100	two 10/100	10/100	10/100
CAN	1	2	4	2
UART	3	4	3	4
USB	-	device	device	3x USB2.0 host
SPI	1	1	2	1
I2C	1	1	2	1
Others	-	-	2x MLI, two 16-bit CAPCOM	Sound, touch-screen, keypad, LCD
Board features	-			
DMA	-	•	•	•
MMU	-	•	•	•
Watchdog	•	•	•	•
Temperature Sensor	•	•	•	•
RTC	•	•	•	•
FPGA/PLD	-	CPLD	FPGA (encryptable)	FPGA (encryptable)
Operating Temperature	-40°C … +85°C	-40°C … +85°C	-40°C … +85°C	-40°C … +85°C 0°C … +70°C
Operating System	eCos	eCos µCLinux Linux	PXROS	Linux
Middleware	CANopen Protocol Stack Source Code Ethernet POWERLINK Protocol Stack Source Code			
Integrated Development Environment	Enhanced Eclipse-based integrated development environment Optimizing ISO C/C++ compiler and macro-assembler Powerful linker with complete control of section placement C/C++ runtime libraries for GNU/ Linux and embedded systems Source- and assembly-level debugger Comprehensive user documentation in HTML and PDF