

PLCcore-F407 Low-cost Industrial Control Platform

The PLCcore-F407 is built for applications where minimal costs are essential. The architecture of this insert-ready OEM-able single board computer is designed in a way to provide a broad I/O configuration at the lowest cost. The PLCcore-F407 is equipped with an IEC 61131-3 runtime kernel and a seamlessly integrated CANopen, Modbus and Ethernet communication. It is the ideal platform for developments of PLC systems and small machine controls.

Cortex[™] M4-based System on Module

Optimized for Low-cost Applications

CANopen Master/Slave Connectivity

IEC 61131-3 Programmable

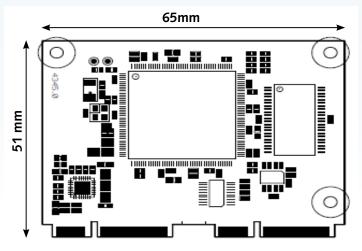
Ethernet Communication



Specifications

	STM32F407 ARM 32-bit Cortex™-M4 168MHz 512kB for PLC user application	t i s
Interfaces Ethernet CAN UART PWM Analog Output Analog Input Digital Output Digital Input Fast Counter Board-to-board	1x 10/100Mbps, on-board PHY 2 3 2 2 8 20 20 20 2 2 2 x 52 pin card edge	4 4 5 1 2
connectors Operating System Programming Interface Programmable in Power Supply Operating Temperature	(Mini PCle connector footprint) SmartPLC by infoteam RS 232, CAN, Ethernet IEC 61131-3 3.3V +/-5% -40°C +85°C	
Optional ¹ LCD Mass storage RTC Environmental standard	DOT-matrix LCD (128 x 64, via SPI) SD Card / eMMC on user board Low current RTC via I2C with battery backup	
RoHS	yes	

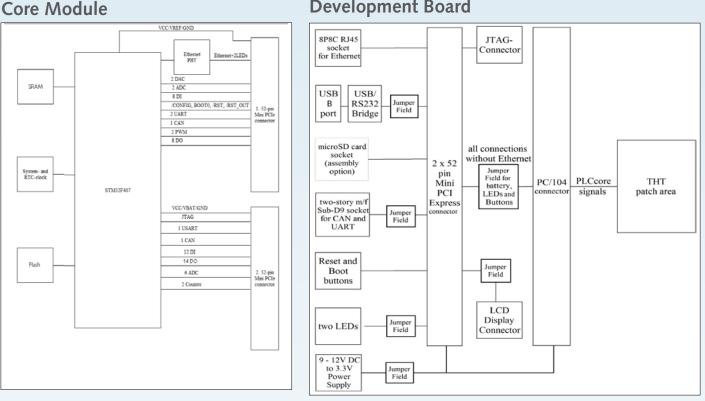
The PLCcore-F407 provides broad I/O functionalities through simple connector footprint. Its used processor is a CortexTM M4 - developed for efficient control and signal processing capabilities. User-applications written in IEC 61131-3 have access to CANopen and Modbus enabled devices. The modules provides a variety of preconfigured digital and analog inputs and outputs. For small motor control applications the PLCcore-F407 offers two PWM and two counter inputs. Support to CANopen and Modbus is included.



2x52 pin card edge connector (Mini PCIe connector footprint)

¹Available under different item number, not all features available simultaneously





Development Board

Production Package

The PLCcore-F407 is available as an insert-ready core module. Customers that would like to purchase in high volumes could also receive a product license with complete production documents and pre-programmed microcontrollers to produce PLCcore-F407 by themselves instead of buying, maximizing their flexibility and having additional cost optimization.

Design Packages

SYS TEC electronic offers design service packages on a fixed price basis. This includes designing and prototyping of customized application carrier boards for OEM. Customers will receive the design and production materials, so that they can reuse the design and produce by themselves. In this manner, it is possible to obtain considerably cost savings.

About SYS TEC electronic

SYS TEC electronic is a system house for customized electronic systems. Founded in 1990 in Germany, SYS TEC electronic has more than 25 years of experience providing a comprehensive service from consulting to OEM integration and series production or transfer of technology to our customers in the field of industry, transportation, communication, energy and computing.

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Development Kit includes: -Baseboard -PLCcore-F407 -USB cable -Software and documentation -Baseboard schematics

Ordering Information PLCcore-F407, ETH 3390095 PLCcore-F407, CAN 3390094 **Development Kit PLCcore F407 KIT-168** Production Package PLCcore-F407 For quotations please contact us: +49-3765-38600-2110 I sales@systec-electronic.com

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