

CE  
RED  
2014/53 EU

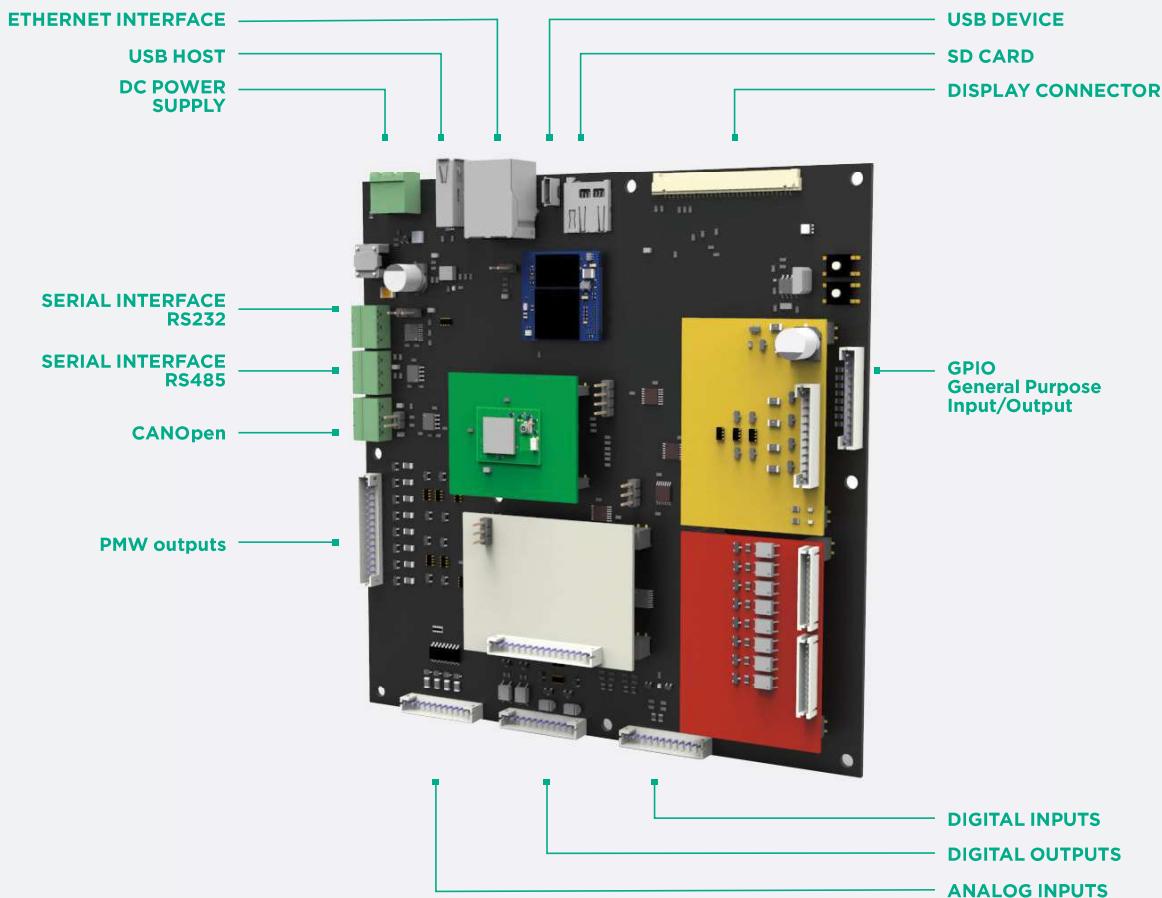
## CARRIER BOARD FEATURES

- +modular architecture (up to 8 add-on modules)
- +high performance and scalable CPU
- +touch display with high resolution graphics
- +power PWM outputs for actuator control
- +multiple PID controls
- +digital I/O
- +analog I/O
- +programmable by customer (IEC 61131-3)
- +ethernet interface for communication protocols
  - +CANOpen, I2C, RS232, RS485
- +high performance digital bus for communication with modules

## GENERAL FEATURES

- +1 x 10/100 Ethernet interface
- +1 x microSD
- +1 x USB host (type A connector)
- +1 x USB device (type micro B connector)
- +1 x CANopen (Master mode - CiA 301)
- +1 x LCD connector from 7" to 10.1" for high resolution capacitive touchscreen
- +real time clock
- +24 VDC single power supply
- +8 x solenoid valve PWM drivers
- +8 x digital opto-isolated inputs (PNP)
- +4 x open collector digital outputs
- +4 x digital opto-isolated outputs
- +4 x 0-10V analog inputs
- +2 x 4-20mA analog inputs

Control and Automation ■ +SMART Cube

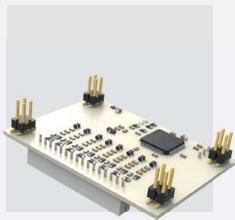


## OPTIONAL MODULES

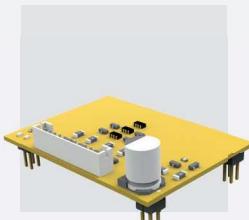
**Additional option available (up to 8 modules) thanks to dedicated sockets.**

- + n.8 x digital opto-isolated inputs and outputs
- + n.4 x solenoid valve PWM drivers  
(with power optimization and current control)
- + n.4 x 0-10 V DC, n. 4x4-20 mA analog inputs 12 bit

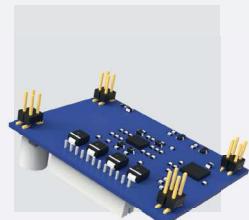
- + n.1 stepper motor driver
- + communication modules  
(Wi-Fi; 4G; NB-IoT; Bluetooth)



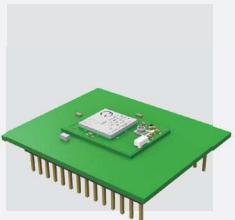
ANALOG I/O



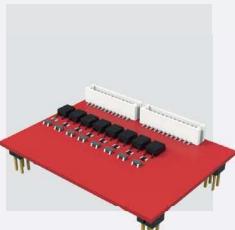
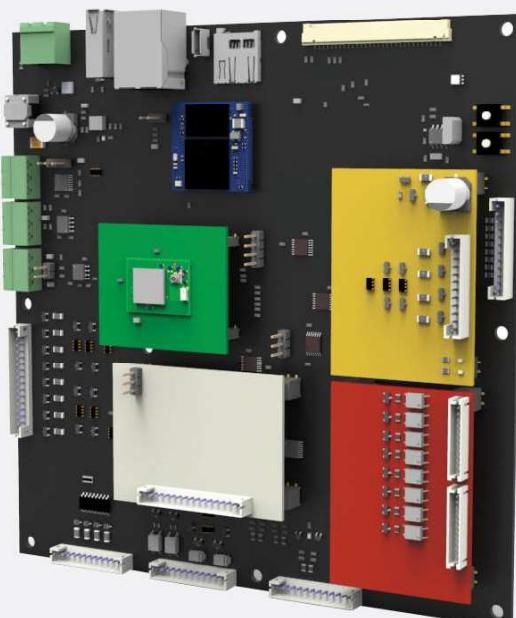
PWM POWER  
OUTPUTS



STEPPER MOTOR  
DRIVER



COMMUNICATION



DIGITAL I/O

I	II	III	IV	V	VI	VII	VIII	IX	X
PC	A	O	ANDSOAO	O	O	C	0000	F	O
<b>CARRIER BOARD</b>									
<b>I. TYPE</b> PC - +SMART CUBE				N - Analog Output D - Digital I/O S - PWM SOV Driver					
<b>II. SUPPLY VOLTAGE</b> A - 24 V DC B - 12 V DC									
<b>III. DISPLAY</b> O - No display A - Display 7.0" B - Display 10.1"				O - None W - Wi-Fi + Bluetooth 4 - 4G N - NB-IoT					
<b>IV. EXPANSION MODULE SLOT</b> O - Empty A - Analog Input				O - None F - F-RAM					
<b>VII. HOUSING</b> C - No H - Yes*									
<b>VIII. PROGRESSIVE NUMBER</b>									
<b>IX. SOFTWARE/LICENCE</b> F - Firmware P - PLC T - PLC+TV W - PLC+WV Z - PLC+WV+TV									
<b>X. BRAND</b>									
I	II	III	IV	V	VI	VI	VI	VI	VI
PC	A	04	04		000000000000		0		
<b>ANALOG INPUT MODULE</b>									
<b>I. TYPE</b> PC - +SMART CUBE				<b>III. NUMBER OF 0-10 V INPUT</b>			<b>V. PROGRESSIVE NUMBER</b>		
<b>II. ADDITIONAL MODULE TYPE</b> A - Analog Input				<b>IV. NUMBER OF 4-20 mA INPUT</b>			<b>VI. BRAND</b>		
I	II	III	IV	V	VI	VI	VI	VI	VI
PC	D	08	08		000000000000		0		
<b>DIGITAL I/O MODULE</b>									
<b>I. TYPE</b> PC - +SMART CUBE				<b>III. NUMBER OF DIGITAL INPUT</b>			<b>V. PROGRESSIVE NUMBER</b>		
<b>II. ADDITIONAL MODULE TYPE</b> D - Digital I/O				<b>IV. NUMBER OF DIGITAL OUTPUT</b>			<b>VI. BRAND</b>		
I	II	III	IV	V	VI	VI	VI	VI	VI
PC	S	00	04		000000000000		0		
<b>PWM SOV DRIVER MODULE</b>									
<b>I. TYPE</b> PC - +SMART CUBE				<b>III. NUMBER OF INPUT</b>			<b>V. PROGRESSIVE NUMBER</b>		
<b>II. ADDITIONAL MODULE TYPE</b> S - PWM SOV Driver				<b>IV. NUMBER OF PWM OUTPUT</b>			<b>VI. BRAND</b>		
I	II	III	IV	V	VI	VI	VI	VI	VI
PC	C	W		000000000000			0		
<b>COMMUNICATION MODULE</b>									
<b>I. TYPE</b> PC - +SMART CUBE				<b>III. COMMUNICATION MODULE</b> W - Wi-Fi + Bluetooth 4 - 4G* N - NB-IoT*			<b>IV. PROGRESSIVE NUMBER</b>		
<b>II. ADDITIONAL MODULE TYPE</b> C - Communication				<b>V. BRAND</b>					