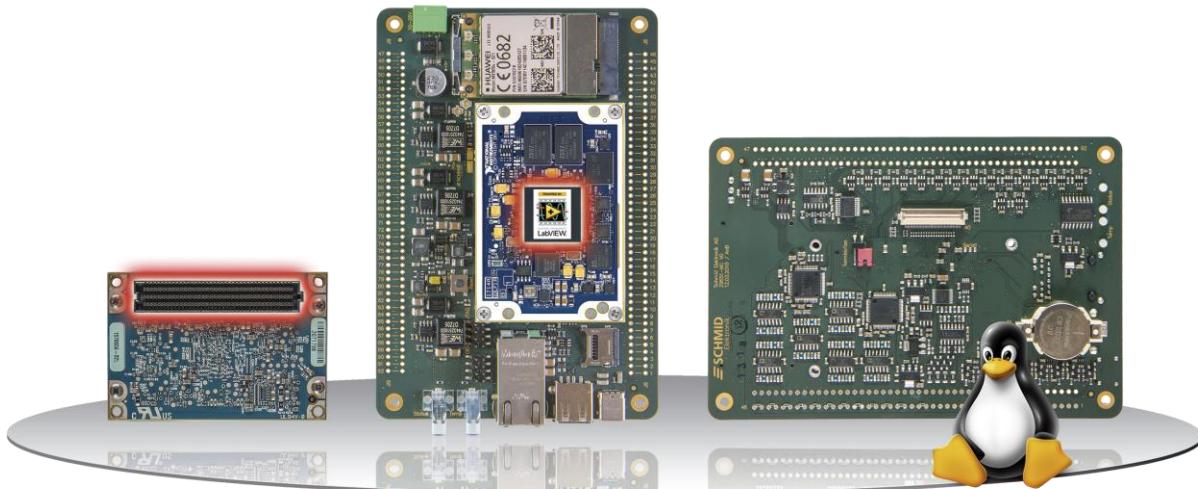


ZSOM-Control



The ZSOM-Control is an off-the-shelf hardware module from NI Embedded-Specialty Alliance member Schmid Elektronik, integrating the NI System-on-Module sbRIO9651 on an industrial carrier board. It is designed for embedded measurement and control applications and can be fully programmed with LabVIEW RT and LabVIEW FPGA. All necessary process I/O signals are available on two rugged clamp terminals. An optional PCIe card adds 4G, GPS or WIFI to the system.

Analog and digital I/O	Communication, miscellaneous
<ul style="list-style-type: none"> 12x analog in, 16 bit, $\pm 5V$ or $\pm 10V$, 500kHz simultaneous, 4th order anti aliasing with fg=200kHz. 4x analog out, 16 bit, $\pm 10V$, OVP, 100kHz simultaneous generation of all 4 channels. 16x general purpose high speed I/O, configurable as digital input or output, 3.3V or 5V operation, speed in the MHz range allows to integrate high performance SPI devices. 10x rugged digital input, 3-30V, OVP (DINX) 6x rugged open collector output, max current: 200mA. 	<ul style="list-style-type: none"> 1x GigE Ethernet 1x USB Host/TypeA, 1x USB device/TypeC 1x CAN / CANOpen 1x SD-Card 1x RS232 with hand shake 1x RS422/RS485 1x 4G modem, SIM-Card 1x GPS receiver with phantom supply 1x 5.7" multitouch display 1x 3.3V and 1x 5V power supply, switchable, short circuit protected, up to 300mA 1x reset button/lines, 2x status LED's Geometry b/h/l : 146mm x100mm x10mm Main wide input range 9-30V power supply

CON 1		CON2
DINX1		+5V
DINX2		GND
GND		+3.3V
DINX3		GND
DINX4		CANH
GND		CANL
DINX5		GND
DINX6		RS422TX+
GND		RS422TX-
DINX7		RS422RX+
DINX8		RS422RX-
GND		RS232 RTS
DINX9		RS232 CTS
DINX10		RS232 RX
AOUT1		RS232 TX
AGND		GND
AOUT2		GPIO1
AGND		GPIO2
AOUT3		GPIO3
AGND		GPIO4
AOUT4		GND
AGND		GPIO5
AIN1		GPIO6
AGND		GPIO7
AIN2		GPIO8
AGND		GPIO9
AIN3		GPIO10
AGND		GPIO11
AIN4		GPIO12
AGND		GPIO13
AIN5		GPIO14
AGND		GPIO15
AIN6		GPIO16
AGND		GND
AIN7		OC1
AGND		OC2
AIN8		GND
AGND		OC3
AIN9		OC4
AGND		GND
AIN10		OC5
AGND		OC6
AIN11		GND
AGND		
AIN12		
AGND		

sbRIO9651

