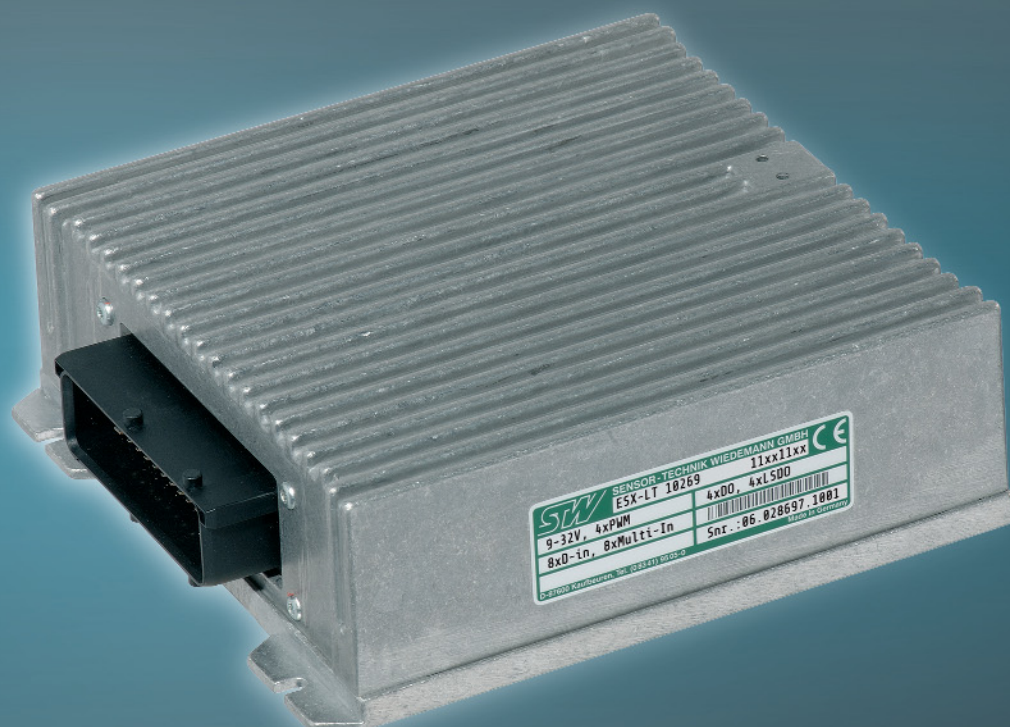


Pioneering new technologies
Pioneering new technologies



STW Technic, LP
Mobile Controllers and Measurement Technologies

ESX[®]-LT



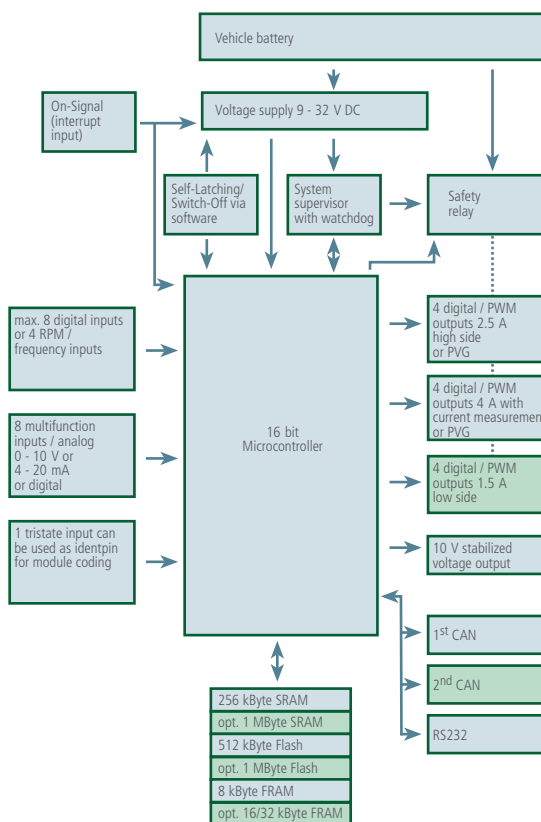
Freely programmable controllers for
vehicles and machines with CAN-BUS



ESX® - LT - Technical Data

Processor system	
Processor	16 bit controller, 20 MHz / 40 MHz, system supervisor with programmable watchdog
SRAM	256 kByte, optional 1 MByte
Flash	512 kByte, optional 1 MByte
FRAM	8 kByte, optional 32 kByte
Interfaces	
CAN	1 st CAN, optional 2 nd CAN, 2.0B (11 bit and 29 bit identifier), full CAN, low- / high-speed up to 1 Mbit/s
RS232	programmable baud rate
Babyboard	for expansions
In-/Outputs	
RPM inputs	max. 4 RPM inputs , active high/low switchable, short circuit protected
Digital inputs	max. 8 digital inputs , active high/low switchable, short circuit protected
Multifunction inputs	max. 8 analog inputs , 4 - 20 mA or 0 - 10 V, cut-off-frequency 750 Hz, 10 bit or max. 8 digital inputs , active high / low switchable, short circuit protected
Tristate input	1 input can be used as identpin for module coding
Digital / PWM outputs with current measurement	4 x 4 A , high side switch, 0 - 100 %, PWM-frequency 5 Hz to 1 kHz, short circuit protected, diagnosable
Digital / PWM outputs	4 x 2.5 A , high side switch, 0 - 100 % short circuit protected, optional 4 x 1.5 A , low side switch, short circuit protected, diagnosable
PVG outputs	max. 4 x PVG , used for Danfoss valves (20% U _B - 80% U _B)
Constant voltage output	10 V stabilized voltage supply, load current up to 400 mA, short circuit protected
System data	
Voltage supply	9 - 32 V DC
Current requirements	operational about 0.5 A without external load, stand-by < 1 mA, max. total current 20 A
Physical characteristics	
Connector	42 pin automotive type (AMP)
Chassis	IP 65, opt. IP 67, die-cast aluminum, GORE-TEX® breathing filter for pressure equalization
Weight	approx. 1.0 kg (2.2 lbs)
Dimension	approx. 154 mm x 169 mm x 52 mm (6.06" x 6.65" x 2.05")
EMC, Environmental requirements	
Requirements	According to automotive, agricultural and construction industry standards; CE-conformity
Operating temperature	-40° C to +85° C (-40° F to +185° F) chassis temperature

Block diagram



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