

Pioneering new technologies
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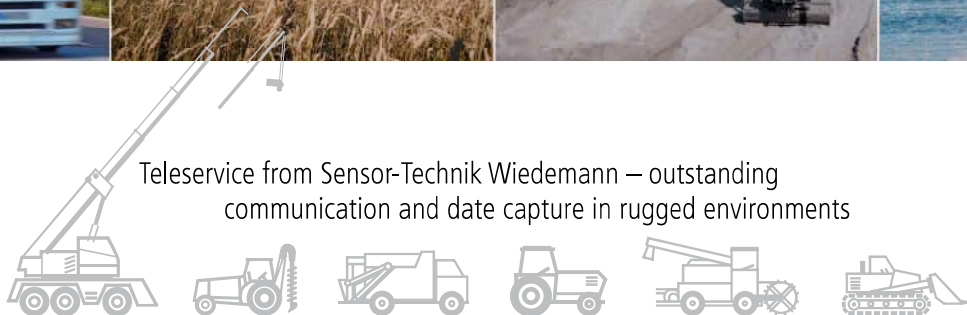
Sensor-Technik Wiedemann GmbH
Mobile Controllers and Measurement Technologies



Linux based teleservice module with integrated antennas

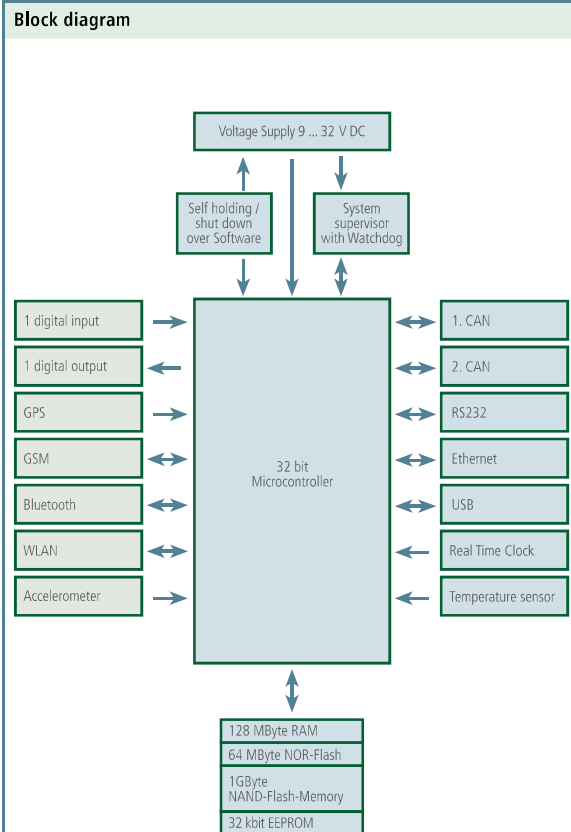


Teleservice from Sensor-Technik Wiedemann – outstanding communication and data capture in rugged environments



ESX®-TC3 - Technical Data

Processor system	
Processor	32 Bit Controller, M/G200B 400 MHz
RAM	128 MByte
NOR-Flash	64 MByte
FRAM/ EEPROM	8 kByte
NAND-Flash-Memory	1 GByte
Interfaces	
CAN	2 x CAN 2.0 B (11 Bit and 29Bit Identifier), Low-/ High-Speed up to 1 Mbit/s
RS232	(serial interface) programmable baud rate
USB	1.1 / Low- & Full-speed Host-I interface
Ethernet	IEEE 802.3, 10/ 100 Mbit
Optional Interfaces	
Expansion board	
I/Os	1 digital input 1 digital output
3 axis accelerometer with wake-up function	
Available with expansion board (max. 3 of the following options)	
Bluetooth	V2 Class 1 (17dBm up to 300 m line of site, internal antenna)
WLAN	IEEE 802.11b & g (internal antenna)
GSM/GPRS	Quad band, Frequencies 850/ 900/ 1800/ 1900 MHz EGPRS / GPRS Class 12 (internal antenna)
GPS	SiRF chipset, SBAS (EGNOS/ WAAS Correction, 20/ 12 Channel internal GPS antenna)
Software	
Linux operating system Board support package (including source code) Open Source development environment	
System Data	
Voltage Supply	9... 32 V DC
Current	300 mA @ 12 V
Real Time Clock	Gold cap buffered with wake-up and alarm function
Internal temperature sensor	
Mechanical Data	
Connector	19pol. automotive standard connector (Tyco / AMP)
Housing	IP69K
Weight	0.3 kg (0.67 lbs)
Dimensions	approx. 134 mm x 117 mm x 36 mm (5.28" x 4.61" x 1.42")
Environmental Specification	
Requirements	Tested to the standards of automotive, agricultural and construction machine industries. CE conform.
Temperature Range	Operating: -40°C ... +70°C (-40°F ... +158°F) housing temperature



The ESX-TC3 is a linux based communication and tele-service module of exceptional capability. With multiple interfaces it forms the basis of practically every conceivable application. Alongside standard interfaces such as RS232, USB and Ethernet the module offers wireless communication via Bluetooth, GPRS and WLAN. The built-in GPS module continuously provides the current position. All necessary antennas are integrated inside the module. This technology, encased in an IP69K housing, opens new possibilities in the realm of teleservice.



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