

Central Unit HZS 512



The HZS 512 central unit runs the control program and is thereby an essential component of the heating control. This module is a simple component that is used to control automated processes in a heating system. The HZS 512 central unit communicates with the boiler function module over a CAN bus connection.

A microSD card serves as the storage medium for the operating system, application and application data. For program updates, the integrated USB interface can be used.

Performance Data

Processor	EDGE-Technology X86 compatible
Internal cache	32-kbyte L1 Cache 256-kbyte L2 Cache
Processor clock frequency	500 MHz
BIOS	AMI
Internal program and data memory (DDR2 RAM)	64-Mbytes
Internal remnant data memory	512-kbytes
Internal storage device (IDE)	microSD card (1 GB)
Interfaces	1x Ethernet (RJ45) 1x USB 1.1, Type Mini B (online USB) 1x USB 2.0, Type A (full speed 12 Mbit/s) 1x CAN bus 1 (internal) 1x CAN bus 2 (external) 1x RS232 (online/Modem)
Data buffer	yes
Signal generator	no
Real-time clock	yes (10-day buffering via GoldCap)
Cooling	passive (fanless)

Electrical Requirements

Power supply +24V	minimum +18 V DC	maximal +30 V DC
Current consumption of voltage supply (for internal electronics)	typically 120 mA at +24 V DC	maximum 325 mA at 18 V maximum 275 mA at 24 V DC maximum 225 mA at 30 V DC
Current consumption of voltage supply +24 V (for external display units)	maximum 1.4 A	

Material

Material	1.0 mm galvanized sheet steel
Mechanical Dimensions	230 mm x 67 mm x 21.8 mm (L x W x H)

Environmental Conditions

Storage temperature	-20 ... +70 °C	
Operating temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
EMC stability	according to EN 61000-6-2 (industrial area)	
EMC - noise generation	according to EN 61000-6-3 (living area)	
Shock resistance	EN 60068-2-27	150 m/s ²

Article Number and Miscellaneous

Article number	05-895-512
HW Version	1.x