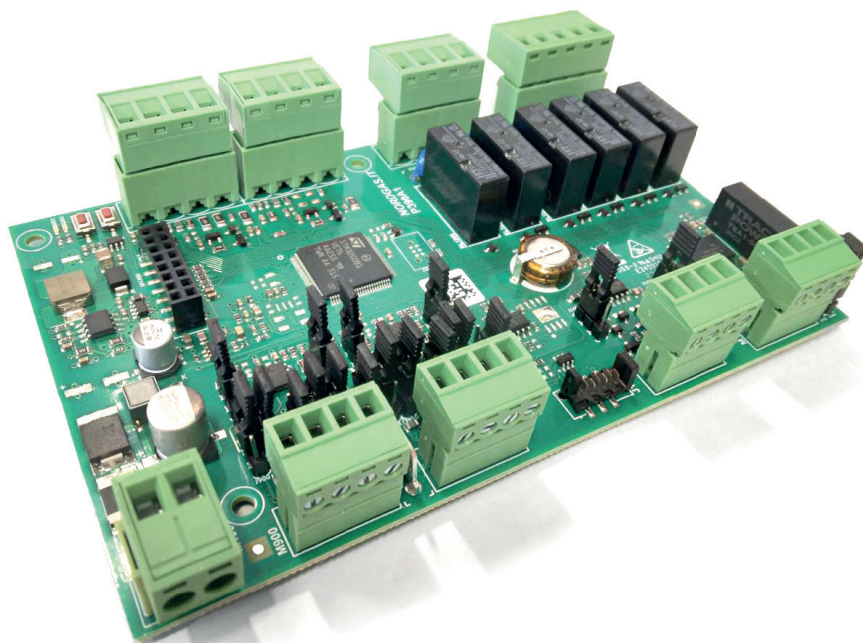


CASCADE MANAGER_{LITE}

CM10

CASCADE MANAGER LITE SYSTEM

High safety Standard (CE approved)
CEI EN 60730 / CISPR 14-1 / En61000
ErP 2005/32/CE - 2009/125/CE



APPLICATIONS

The Cascade Manager Lite has been designed to manage a modern heating and domestic hot water system with boilers in battery, capable of optimizing overall performance in order to ensure maximum efficiency, reduction of energy costs and ease of maintenance.

The board is equipped with the art of state about I/O and communication peripherals reducing the needed of other external devices.

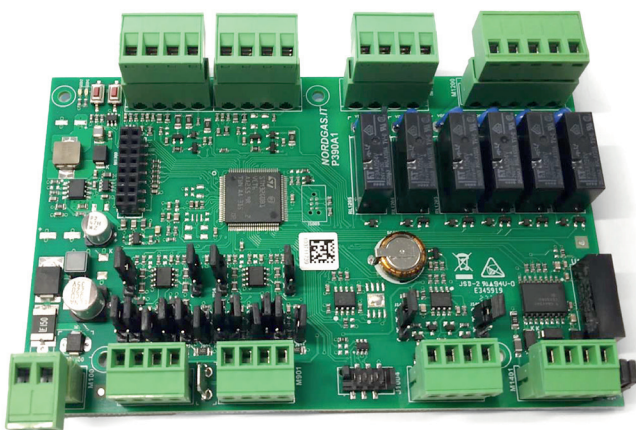
The Cascade Manager Lite platform can manage several boilers simultaneously, even with different powers, through a digital communication bus.

The Cascade Manager Lite is provided with a high-level graphical user interface. The user can configure inputs/outputs, set-points, modes and many other parameters by means of an easy and friendly user interface provided with icons and messages in five different languages.

Thanks to its high flexibility, the "cascade manager Lite" can be hardware configured to create a customer tailored model to satisfy each system requirement.

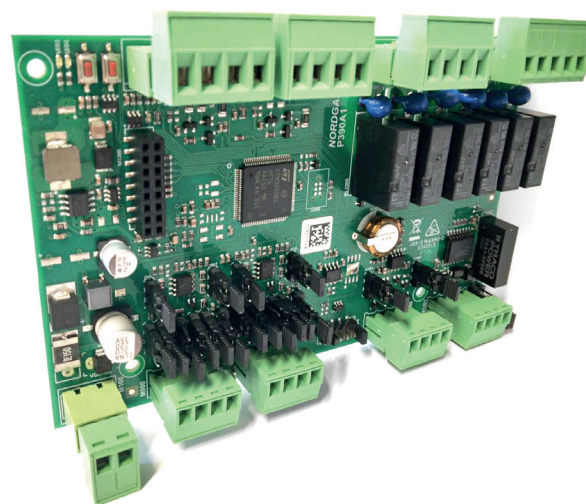
The board features an expansion connector that accepts an expansion card equipped with a wireless communication module for remote management, an SD card reader for programming and saving parameters and configurations, and data logging capabilities.

Thanks to its communication buses, it can be expanded connecting other "Cascade Manager Lite" platforms to build an advanced cascade system.



GENERAL FEATURES

- Cascade Manager Lite supervisor for high-power Burner Controls, Solar and zoning systems
- Up to 8 boilers handledHandling boilers with different powers
- Solar integration
- Automatic boilers rotation
- Simultaneous handling of Central heating and domestic hot water
- External high performance graphical user interface provided
- Fully configurable inputs and outputs functionalities
- RS485 Half-duplex isolated Modbus interface for communication with boilers
- RS485 Half-duplex Modbus interface for remote controller/ external supervisors / expansions
- Standard industrial Low voltage power supply
- Support WiFi® /BLE communication capability
- DIN Rail 134 x 87mm 4 layers PCB board dimensions



ACCESSORIES

The **CM10** family can be interfaced with the following accessories:

- External Dot matrix user interface **KVAR series**
- Zone managing
- Outside temperature sensors **EXT10 series**
- Contact temperature probes **TEM10 series**
- Immersion temperature probes **IMM10 series**
- Wirings according to customer specifications

MAIN FEATURES		CM1097	CM1098	CM1099
Power Supply	External +24Vdc 30W power supply input	✓	✓	✓
	External 24Vac 30W power supply input	○	○	✓
Configurable inputs	4x Analog inputs for NTC temperature probes	✓	✓	✓
	OR 4x Analog input for PT1000 temperature probes [0..10V][4..20mA (1)]	✓	✓	✓
	OR 4x Analog input for 0.10Vdc input	✓	✓	✓
	OR 4x Analog input for 4.20mA input	✓	✓	✓
	OR 4x digital input for contact switches (24Vdc max 10mA)	✓	✓	✓
Configurable outputs	4x Relay SPST contact (230Vac max Load = 5A) with common	✓	✓	✓
	1x Relay SPST free contact (230Vac max Load = 5A)	✓	✓	✓
	1x PWM 24V digital output with feedback input for modulated pump	✓	✓	✓
	1x Relay SPST free contact (230Vac max Load = 5A)	✓	○	✓
	OR 1x PWM 24V digital output with feedback input for modulated pump	✓	✓	✓
I/O	2x on-board status leds	✓	✓	✓
	2x on-board pushbuttons	✓	✓	✓
Communication	1x RS485 Modbus half-duplex isolated	✓	✓	✓
	2x RS485 Modbus half-duplex	✓	✓	✓
	1x digital interface for external WiFi/BLE 802.11 b/g/n 2,4GHz module	✓	○	✓
User interface	1x LCD 256x138 dot matrix board interface with 6 pushbuttons and rotary encoder	✓	○	✓

✓ = included
 ○ = On request
 - = Not provided

Rev. 03/2025 - We reserve the right to make changes without prior notice