

## Product Data Sheet

WTXP

# watttrixServer\* Performance

Scaled solution to administrate large heating systems and empower digital solutions



watttrix

### Hardware Parameters

#### Mechanical and Electrical Specifications

Power Supply	24 V DC
Max. power consumption	144 W
Dimensions	180 x 70 x 123 mm (7.09" x 2.76" x 4.84")
Mounting type	Bookmount, via adapter plate
Terminal blocks grid dimension for supply plug	3.81 mm
Weight	Appr. 2.0 kg (4.41 lbs)
Ambient temperatures	0 °C to +60 °C (32 °F to 140 °F) standard
Relative humidity	93 % RH at 40 °C, non-condensing
Ethernet	1x 2.5 Gb LAN and 1x Gb LAN
Memory/Storage	8 GB DDR4, 512 GByte
CPU	i7-1185G7E 4x 1.8 GHz
Certifications	CE, UL 61010, CB, FCC

### PLC-controlled functions

- Control heater
- Get heater status
- Load temperature profiles
- Store process data in PLC data storage (e.g. power usage)
- Error handling (acknowledge/clear errors)
- Standby management

### Industrial Protocols

EtherNet/IP



MQTT



### One Product – three ways:



**Gateway** between cera2heat® or cera2seal® heating systems and PLC



**Interface** to watttrix Digital Services



**Host** of graphical user interface for control and monitoring

\*watttrixHub is required

watttron Inc.  
150 N Michigan Ave  
35th Floor  
Chicago, IL 60601

+1 (312) 665-0984

sales@watttron.com

watttron GmbH  
Dresdner Str. 172c  
D-01705 Freital

+49 351 27180800

www.watttron.com

## Web Application – for next level use cases

### Analyze\*:

Record and store heating process data on pixel level up to 12 weeks

Visualize power usage, temperature trends and energy consumption

### Configure

Temperature profile editor to configure multiple recipes

User Management with permission restrictions for operators and technicians

### Control

Advanced heater control incl. temperature scales and offsets

Quick-select multiple temperature profiles depending on materials

### Monitor

Detailed temperature and power usage monitoring – on pixel level

Error management and logging

### Ensure highest sealing quality\*:

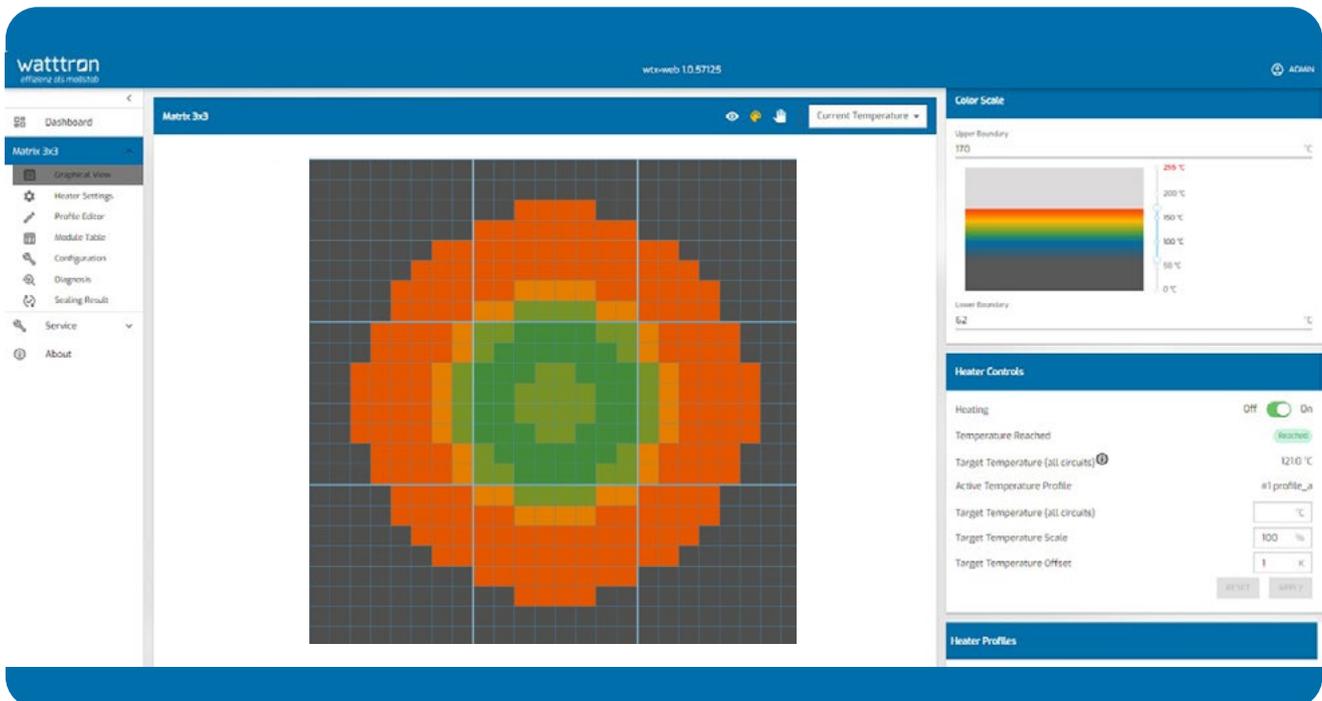
Advanced in-line inspection of process data to detect anomalies

Intelligent algorithm that adapts to environmental changes (no need to re-train at every production start)

Multiple models for different products and recipes

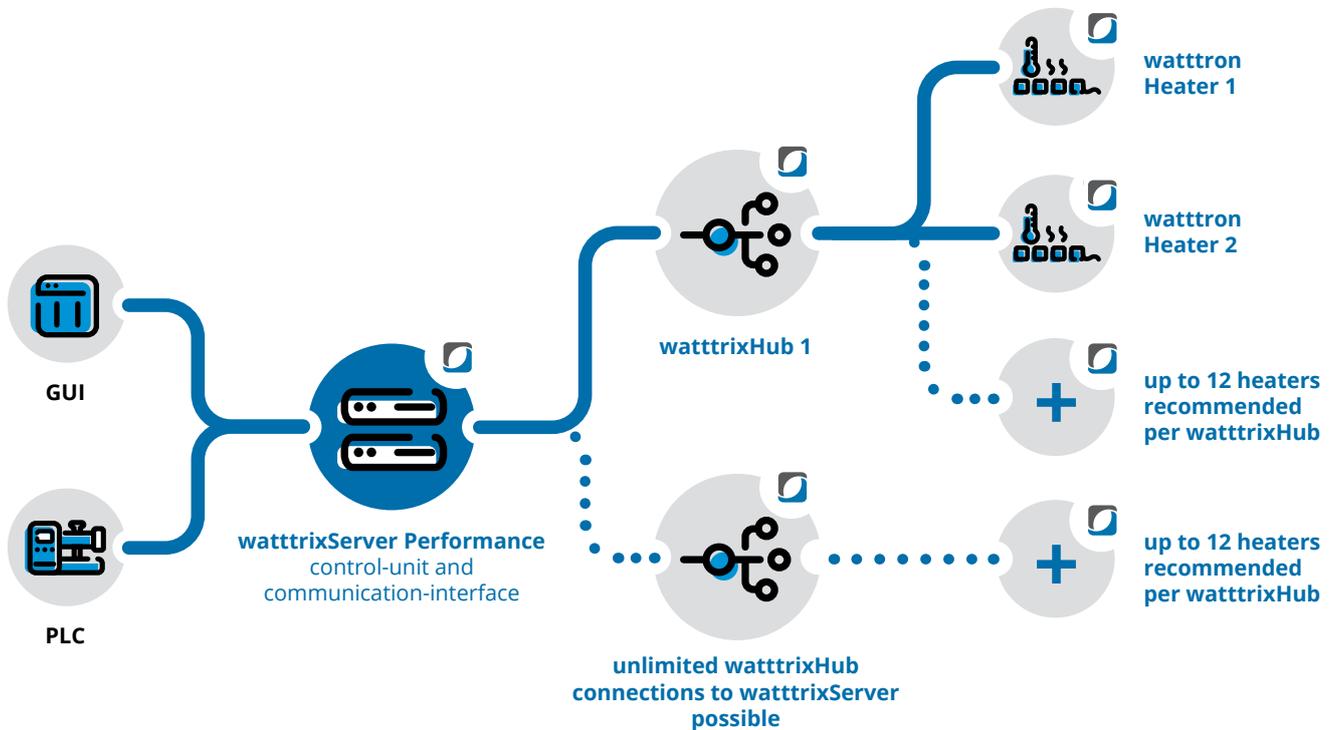
Background tasks for continuous model optimization and performance enhancements

\*Further license is required



**Screen requirements:** Resolution: min. 1280x800 (WXGA), recommended 1920x1080 (Full HD) - **Browser:** at least Chromium version 110 (Firefox: 115)

## Infrastructure



## Detailed Feature List

Feature	
<p><b>Graphical User Interface</b></p> <ul style="list-style-type: none"> <li>· Dashboard overview of heaters</li> <li>· Heater status and temperature monitoring</li> <li>· Heater control (heater on/off, info target temperature reached, min/avg/max temperature, set target temperature, set temperature offsets)</li> <li>· Multi-temperature-profile quick-select</li> <li>· Individual Heater-Layout View-Management</li> <li>· Color Scale Panel: adjust colors and boundaries of displayed temperature values</li> <li>· Detailed information (temperature, power usage, chip temperature) on circuit and module level</li> <li>· User permission control</li> <li>· Temperature profile editor: for heterogenic profiles, incl. grouping of pixels, import/export and renaming</li> <li>· Administration of Digital IOs</li> <li>· Disable Pixel Self Service</li> </ul>	✓
<p><b>Digital Input</b></p> <ul style="list-style-type: none"> <li>· Heater Standby Management</li> <li>· Turn on and off Heater</li> </ul> <p><b>Digital Output</b></p> <ul style="list-style-type: none"> <li>· Target Temperature Reached Signal</li> <li>· Heater Status</li> <li>· Enable Signal</li> </ul>	✓
<p><b>Industrial Protocols</b></p> <ul style="list-style-type: none"> <li>· EtherNet/IP</li> <li>· ModbusTCP</li> <li>· MQTT</li> <li>· PROFINET</li> </ul>	✓