

# CULTIMESH

Wireless mesh platform

**MORE THAN JUST  
A CONTROL SYSTEM!**

Your next step  
towards autonomous  
growing



# TAKE YOUR OPERATION TO THE NEXT LEVEL WITH CULTIMESH!

**CultiMesh is a cost-effective wireless mesh platform with numerous practical functions making indoor farming operations more efficient than ever!**

The platform is continuously developed based on extensive technical research and collaboration with growers, energy experts, electricity network providers and climate computer companies to find the best possible solution for high-tech installations.

## MAIN PRODUCT FEATURES



### **SUPER FAST 2-WAY COMMUNICATION**

capable of controlling thousands of luminaries in a fraction of a second & providing feedback based on collected data



### **UNLIMITED SCALABILITY**

a robust mesh network connecting infinite number of devices



### **HIGH RELIABILITY**

a self-organized network without single-point-of-failure



### **INTEGRATION WITH CLIMATE COMPUTERS**

compatible with the HLP (Horticulture Lighting Protocol) or you can use it independently as a standalone solution



### **CONTROLS MULTI-CHANNEL LAMPS**

for better uniformity and energy savings



### **MONITORS, LOGS, NOTIFIES**

- driver temperature, consumption, working hours
- email-based notifications with exact position



### **HIGH-PRECISION “GPS”-POSITIONING SYSTEM**

e.g., tracking employees and robots with portable tags for a more efficient operation

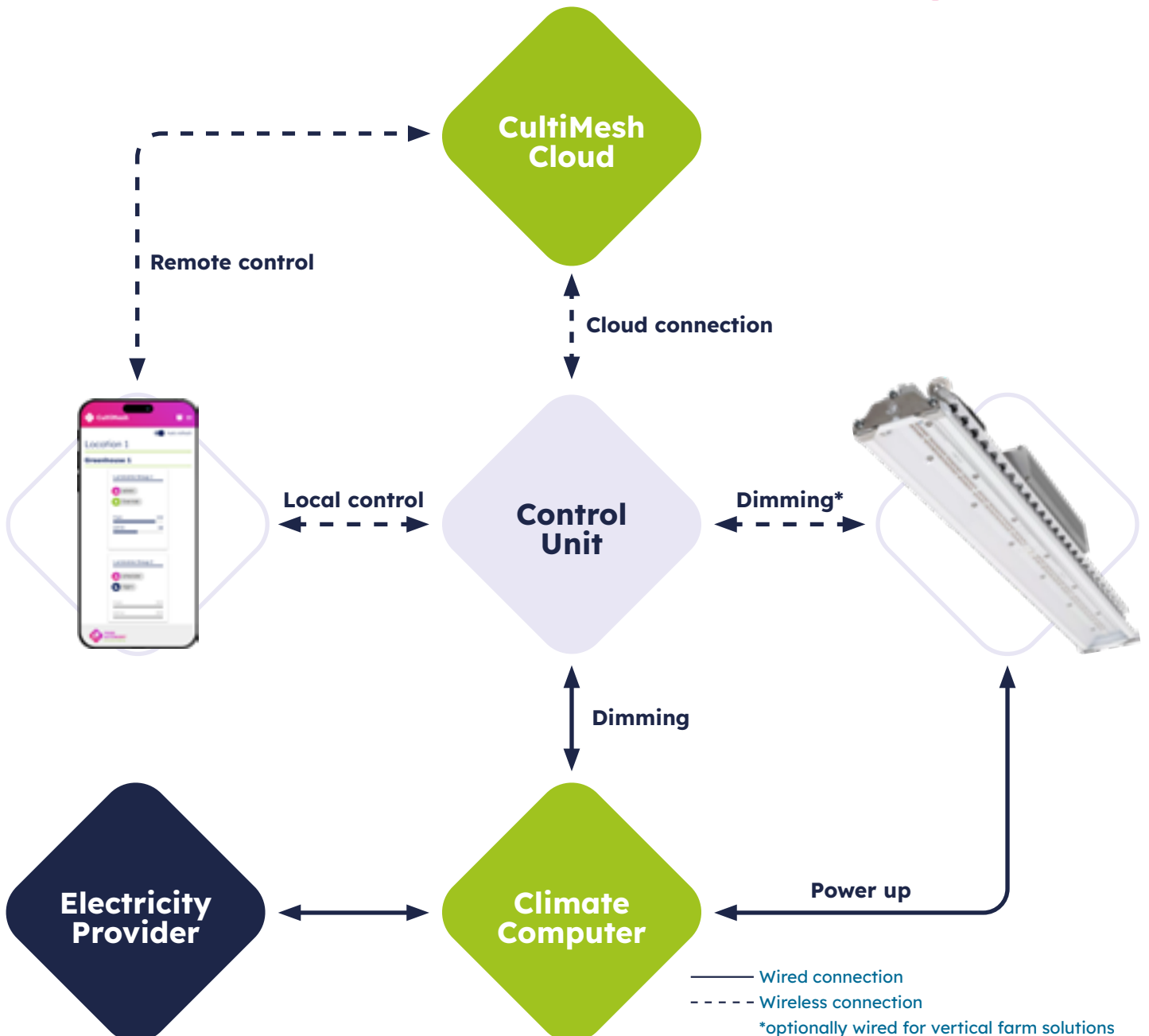
# MAIN PRODUCT BENEFITS

- **Super-fast** electrical grid balancing
- **Tunable spectrum** aligned with the growth cycle
- **Flexible dimming** between 0-100%
- **Pleasant work atmosphere** for your employees
- **Remote system control, monitoring and notifications**
- **Positioning grid** for future improvements e.g.: **robotic tracking**
- **Big data** collection for a fully autonomous greenhouse
- **Future proof:** ready for technology upgrades

**SENDS  
COMMANDS  
&  
COLLECTS  
DATA**

# HOW IT WORKS

Connect your wireless greenhouse toplights to CultiMesh!



# REFERENCES



“Food Autonomy’s grow light with CultiMesh were the first to support the Horticulture Lighting Protocol. The integration went perfectly! The biggest Finnish tomato grower is now able to control his full LED installation directly from our climate computer.”

**Joost Veenman,**  
Strategic Product Manager at Ridder (ridder.com)



“We control lighting directly via our climate computer since the integration of the CultiMesh and the Horticulture Lighting Protocol.”

**Leo van der Lans,**  
co-owner of Lans Group (lans.nl)



“We are nowadays the biggest tomato grower in Finland. We control the lights with the Cultimesh. The Cultimesh is integrated into the computer system we are using. Working with Food Autonomy is giving me the feeling that they care. That’s very important for me as a grower.”

**Patrik Sigg,**  
CEO of Sven Sigg AB.

**CONNECT  
WITH US!**

FOR MORE INFORMATION:  
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**FOOD  
AUTONOMY**  
Horticultural lighting