



**2020 EDUCATION PROGRAM • FREE INDUSTRY SESSION**

**TUES. FEB. 4 • 12:00PM – 1:00PM • LOCATION: W311C**



**BRAD WHITE**  
President;  
SES Consulting



**CALVIN SLATER**  
Engineer; Climatec



**NICOLAS WAERN**  
CEO & Digital  
Transformation  
Expert; Winnlio



**ZACH NETSOV**  
Product Specialist;  
Contemporary Controls

# Next Generation HVAC Controls: Open Discussion For Open Future

Presented by [AutomatedBuildings.com](https://AutomatedBuildings.com)

# BAS-OSI (Open Systems Interconnection) Cake

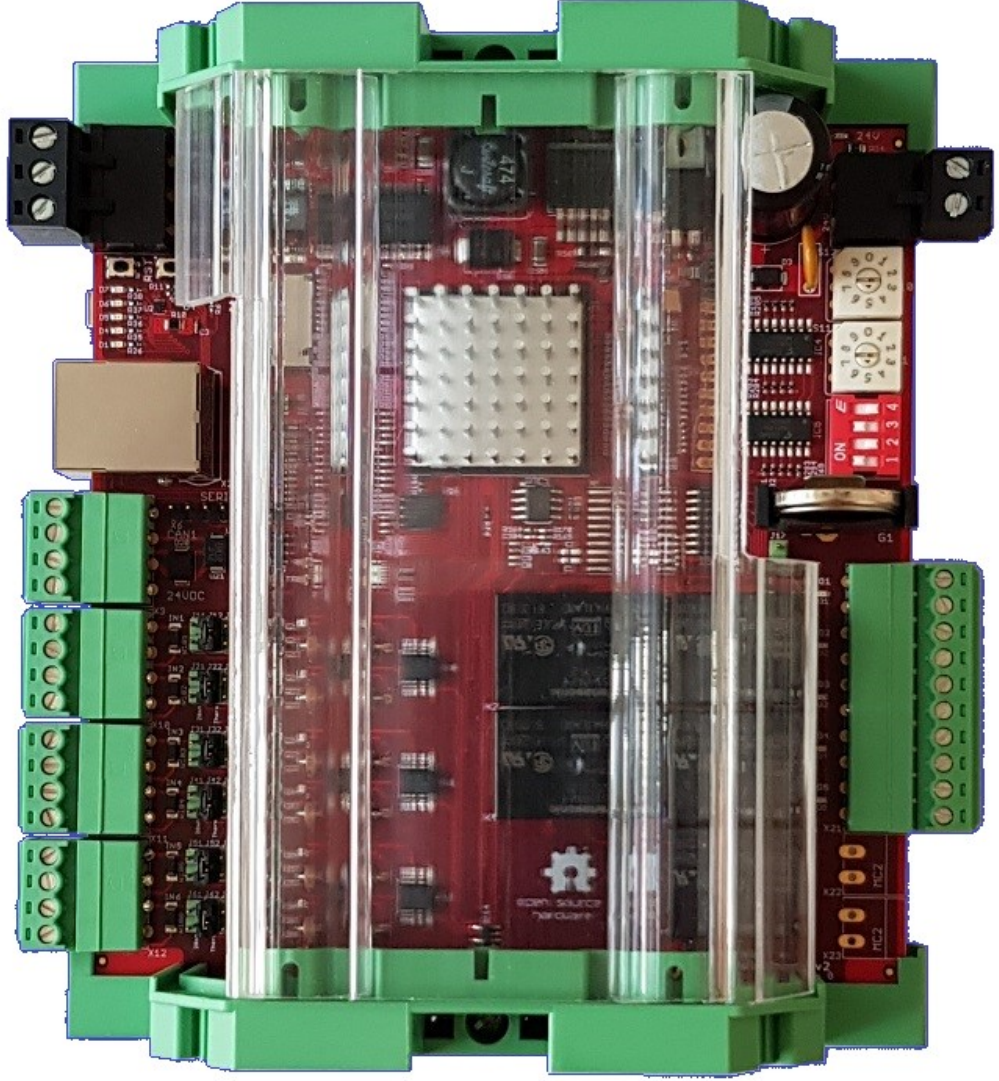


Cloud, AI, ML, Analytics, Web Services

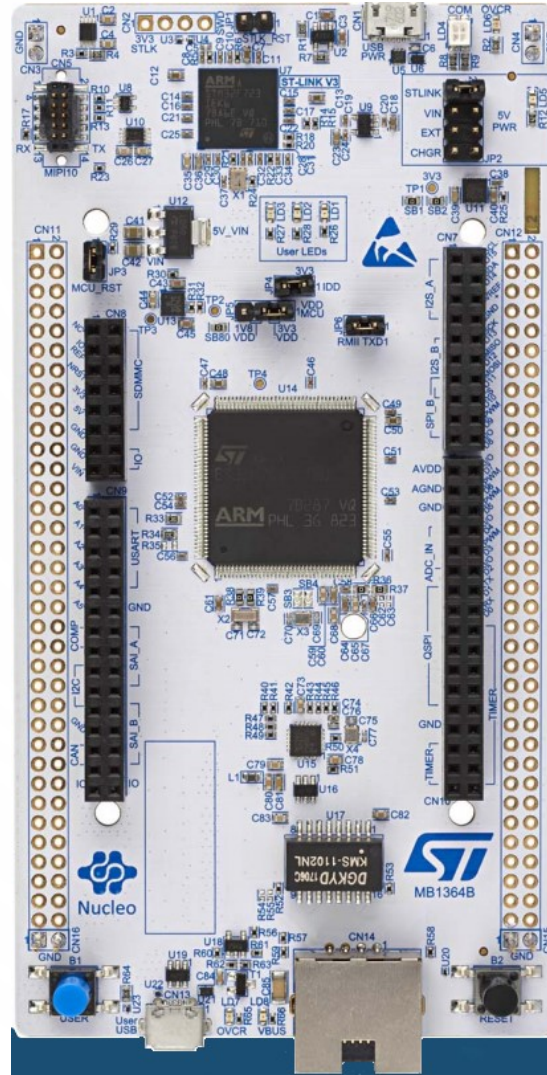
Control Frameworks,  
Standardized Site Metadata,  
Distributed Self-Documenting  
Data Structures, APIs

Programmable  
Field/ Edge DDC  
Controllers, Communication  
Protocols, Protocol Gateways

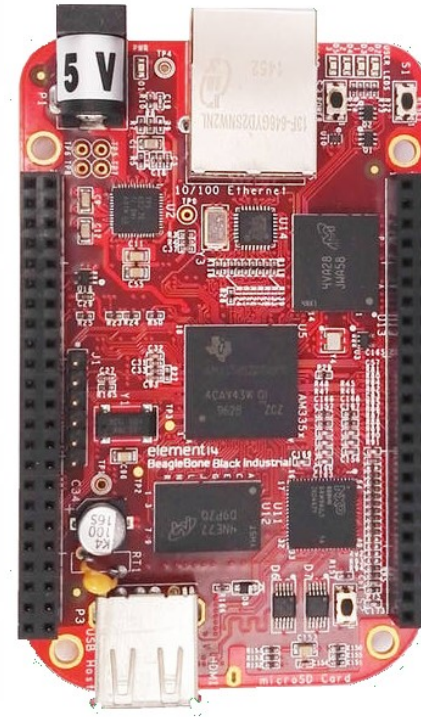
Sensors/ Transmitters,  
Actuators, Configurable  
Communicating Field Devices

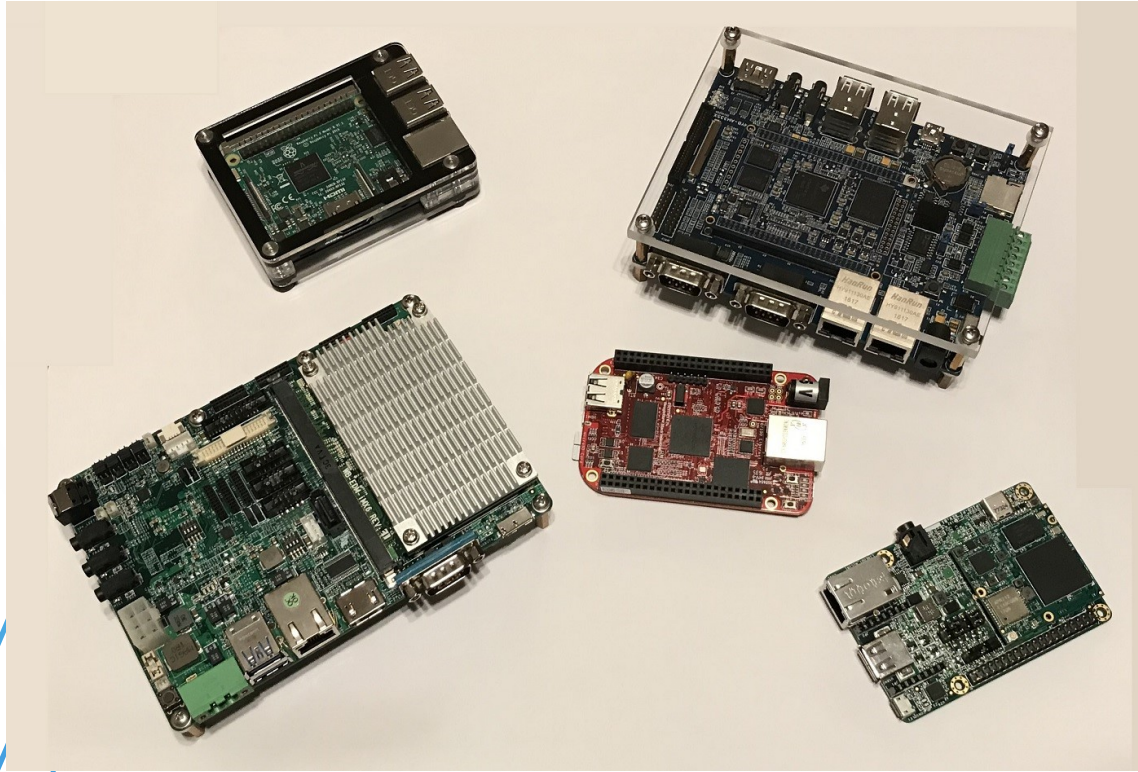


Arm Cortex-M7  
(STM32H7) 480MHz  
1 Mb SRAM  
2 Mb Flash



Arm Cortex-A8  
(AM3358) 1GHz  
512Mb DDR RAM  
4 Gb EMMC Flash





FULLY ISOLATED RS-485 PORT

USB

uSD

IP

RS-485

6 UIs

24 VAC OR DC POWER

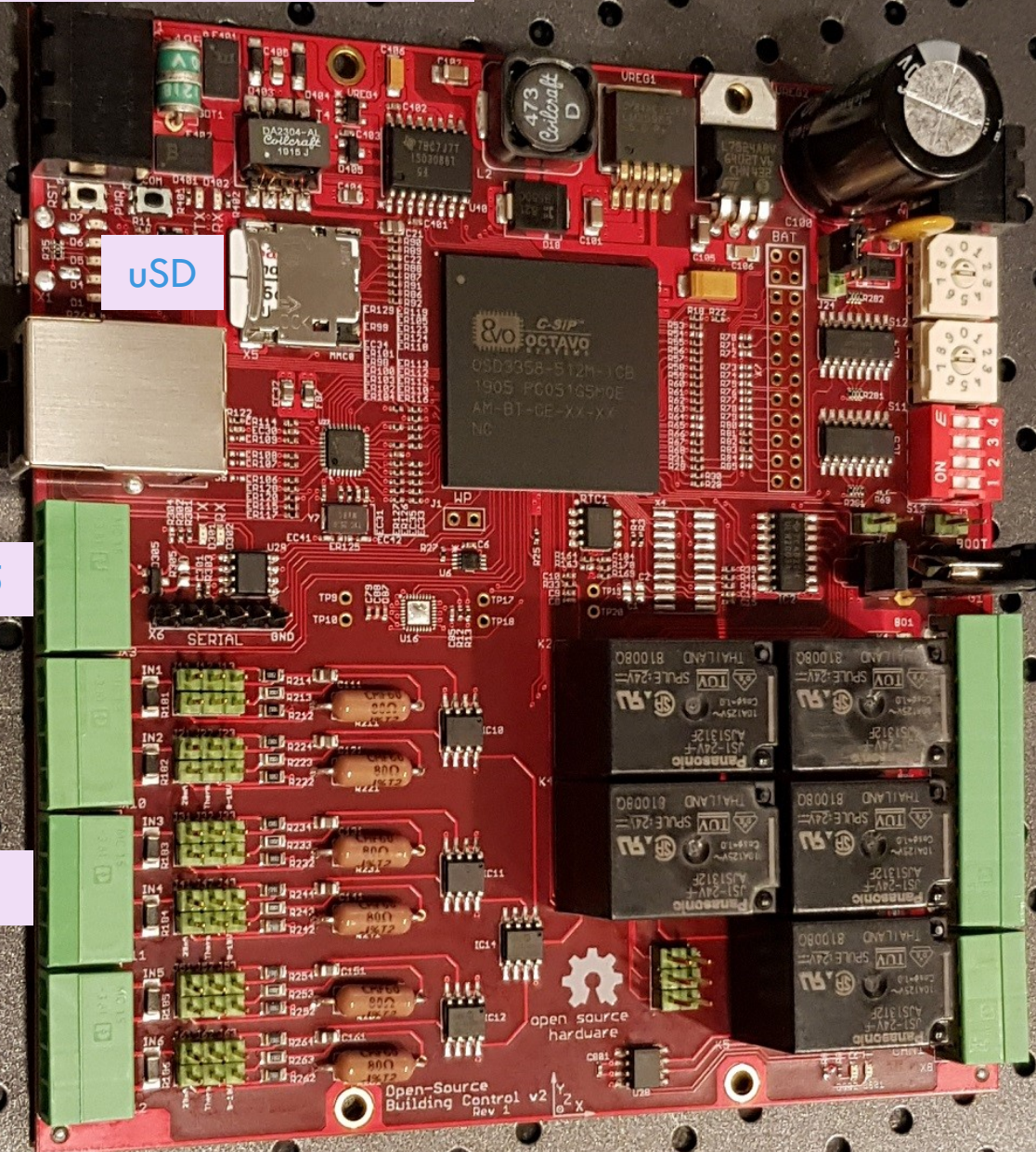
DECIMAL ADDRESS SWITCHES

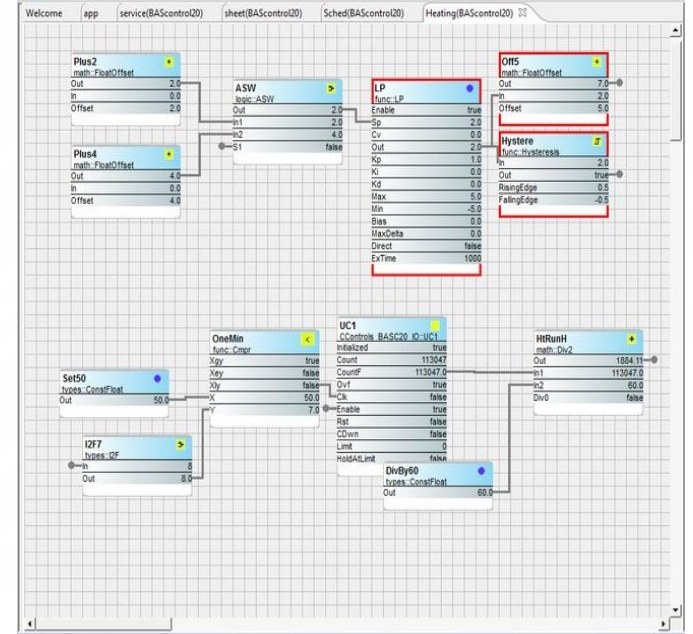
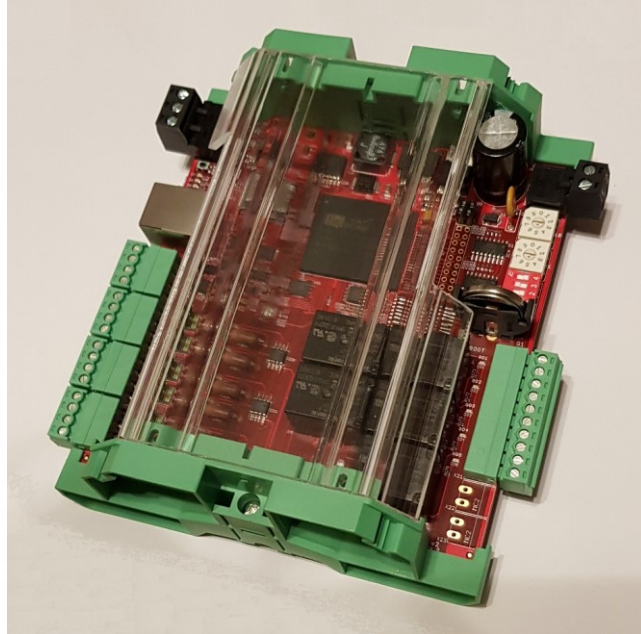
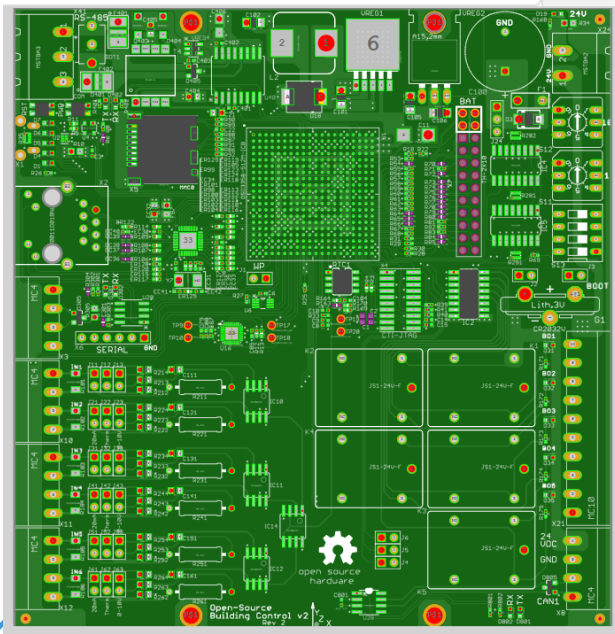
REAL TIME CLOCK

FIVE RELAY OUTPUTS

CAN NETWORK

Arm Cortex-A8  
(AM3358) 1GHz  
512Mb DDR RAM  
4 Gb EMMC Flash





# OPEN SOURCE SOFTWARE





