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urHOME – Modular Home^{Team 6} Monitoring and Control System

urHOME

- Modular Home Monitoring and Control System
 - Customizable to your home energy/security needs
 - Protect your family from household threats from anywhere in the world
 - Easy access and user friendly Interface
 - Real Time Home Environment Data Streaming and Alerts
- Accurate Temperature, Ambient Light, Fire, and CO Monitoring
- Automated Window Blinds and Door Locks
- Low Power Consumption
- Customizable to fit User Needs and Budget
- Meets FCC part 15 requirements
- Meets and exceeds IEC and UL power regulations
- Responsive, consistent user interface

KEY REQUIREMENTS

- Market: North America
- Pricing
 - MSRP: \$750
- Environment
 - Indoor Stationary System, except for User Interface (mobile)
 - Operating Temperature Range: 0 – 45 C
 - Operating Humidity Range: 0 – 95% Non Condensing
- Sensors :
 - Smoke Detection Sensitivity Wavelength at 900nm
 - Carbon Monoxide Detection at 200ppm
 - Light Sensor with Dynamic range from .01lux to 64k lux
 - Digital Temperature Accuracy: +/- .125°C
- Controls
 - Dimming Accuracy: +/- 5%
 - Dimming Range: 0-64 scale
- Functions
 - 7 buttons to control home lighting, blinds, door, and alarm.
 - LCD Display
 - Blinds: Open/Closed/User Defined Position
 - Lock: 2 states => Locked/Unlocked
 - Integrated web server accessible from any location
- Power Input
 - Residential AC Power – 110 -132VAC @ 15 AMPS
Converted to 3.3VDC and 12VDC

BLOCK DIAGRAM

- 3.3 VDC
- VDC
- VDC
- Joshua
- Nishi
- Usma
- Justin
- Thao
- Seng

