Intelligent System to the new level of freedom and reliability

Oxygen O2
**OXYGEN O₂**  
INTERNET OF THINGS

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**TECHNICAL SPECIFICATION**

- **Power supply**: 13V DC ±10% | 110-230V 50Hz/60Hz AC  UL
- **Power safe**: Li Battery 4 AH[optional], Auto-shut down super capacitor protection
- **Working memory**: 1GB | 2GB | 4GB
- **Storage**: 64GB class 3
- **Extended storage**: 256GB SSD [Optional]
- **Cloud**: Amazon AWS  Dedicated server
- **Out put control**: 8x 10A 220V | 5A 30V DC, Dry contact out
- **Working Temperature**: -10°C up to 60°C
- **Connectivity**: IEEE 802.11.b/g/n/ac wireless LAN 2.4GHz and 5GHz Bluetooth 4.2/BLE, faster Ethernet
- **Processor power**: Quad-core processor, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
- **Ports**: 1x HDMI 1.4, 4x USB 2.0 ports
- **Input / Output**: 8x Dry contact out put Digital out  
8x Digital logical input - Isolated industrial  
128x Digital input expansion over i2C [optional]
- **Dimension [HxWxD]**: 46mm x 482mm x 90mm
- **External connections Protocols**: I2C, 1Wire, TCPIP, Wifi, MODBUS[optional], Zigbee[optional]  
Zwave[optional], MQTT, GPIO, HDMI-Audio video, 433Mhz RF
- **Integration**: amazon echo, Google Home, Apple Home kit, Grafana, HTML5, NODE JS, Python, MQTT, Node Red, Artificial Intelligence

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**MULTIPLE INTEGRATIONS**

- **Monitoring Application**
  - Exit Door monitoring
  - Facility monitoring
  - Temperature monitoring
  - Sound level monitoring
  - Environment monitoring
  - Light intensity monitoring
  - CO2 monitoring
  - Water detect
  - Moisture level monitoring
  - Altitude, Vibration
  - GPS location sensing
  - Atmosphere pressure sensing

- **Control Application**
  - Office Automation
  - Home Automation
  - Out door lighting
  - Robotics, Automation
  - Programmable logical Control
  - Lighting/Motor control
  - IF THEN DO THIS
  - Input vs Output control
  - Timer control
  - UAE Adan system
  - Centralized audio player
  - Timed Audio player

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**CONTACT**

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**OXYGEN ☼**

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**OXYGEN O₂**

**AREA OF APPLICATION**

<table>
<thead>
<tr>
<th>Application Area</th>
<th>Monitoring / Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shopping malls</td>
<td>Fire Exit monitoring, Temperature on critical areas, Various location temperature measurements, Critical area safety, Entrance and exit with live snapshot, General area lighting control, Power status monitoring, Power consumption monitoring, Centralized monitoring and control, Monitor from anywhere, Critical information reporting, Shop attendance - Full featured Dash board for centralized monitoring</td>
</tr>
<tr>
<td>Hyper market/ Super market</td>
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<tr>
<td>Retail chain</td>
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<tr>
<td>Warehouses</td>
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<tr>
<td>Commercial buildings</td>
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<tr>
<td>Residential building</td>
<td>Home devices control, Automations, Voice activated controls Amazon ALEXA, Google Home, Apple Home kit integration Unified control for all smart electronics devices Energy meters, Monitor your energy consumption</td>
</tr>
<tr>
<td>Gardening</td>
<td>Automatic water irrigation, Environmental monitoring Monitoring and Fully automated control, Valve control</td>
</tr>
<tr>
<td>Villa complex</td>
<td>Perimeter monitoring with laser lights / IR waves, Snapshot sending with IP Camera with 0.2 sec delay Messenger integration and LIVE update, Instant Photo Remote alarm, Visual and audible alarm, ultra fast response</td>
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<tr>
<td>Airport , border security</td>
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<tr>
<td>Food vehicle</td>
<td>Live temperature monitoring, Centralized monitoring and control</td>
</tr>
<tr>
<td>Parking Building</td>
<td>CO₂ Monitoring, Environmental monitoring Temperature Humidity, CO, CO₂, Light intensity, Air quality Lighting control, Exhaust air control, entry and exit vehicle snapshot from 4/6 angle for safety and proof. Any custom solution.</td>
</tr>
<tr>
<td>Freezers</td>
<td>Centralized freezer temperature monitoring and control</td>
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<tr>
<td>Other</td>
<td>Any general purpose automation, timed controls, Automatic lighting</td>
</tr>
</tbody>
</table>

**SENSORS**

- Contact Sensor
- Temperature sensor
- Humidity sensor
- Carbon monoxide sensor
- Vibration sensor
- Water detect Sensor
- Current Sensor
- Energy meter
- Voltage meter
- Motion detector
- Sound level sensor
- GPS sensors

**MULTIPLE INTEGRATIONS**

- REST
- Zigbee
- HTML

**Contact Information**

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Exit doors / Door sensors - Door state monitoring

STATE MONITORING

ENVI MONITORING
Temperature | Humidity | moisture etc

MOTION DETECTION
Human body movement detection | General movement

LIGHT SENSOR

ENERGY MONITORING
Voltage, current, power monitoring

INTERNET DATA
Internet data analysis | live reporting | news feeds | messengers | Social media

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Human body movement detection | General movement

As a multi-zone audio player | Fully automated audio/video source

MOTION DETECTION

AUDIo SERVER
DOOR MONITORING
Exit doors / Door sensors - Door state monitoring LIVE Mobile push Photo snapshot to messenger Telegram integration Live Photo integration Advanced IOT technology LIVE

INTERNET DATA
Internet data analysis | live reporting | news feeds | messengers | Social media

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