

QBoat Sunny Ferries your IoT Devices to the Cloud

# QBoat Sunny

IoT mini Server



DDR3L  
2GB RAM



Quad Core  
CPU



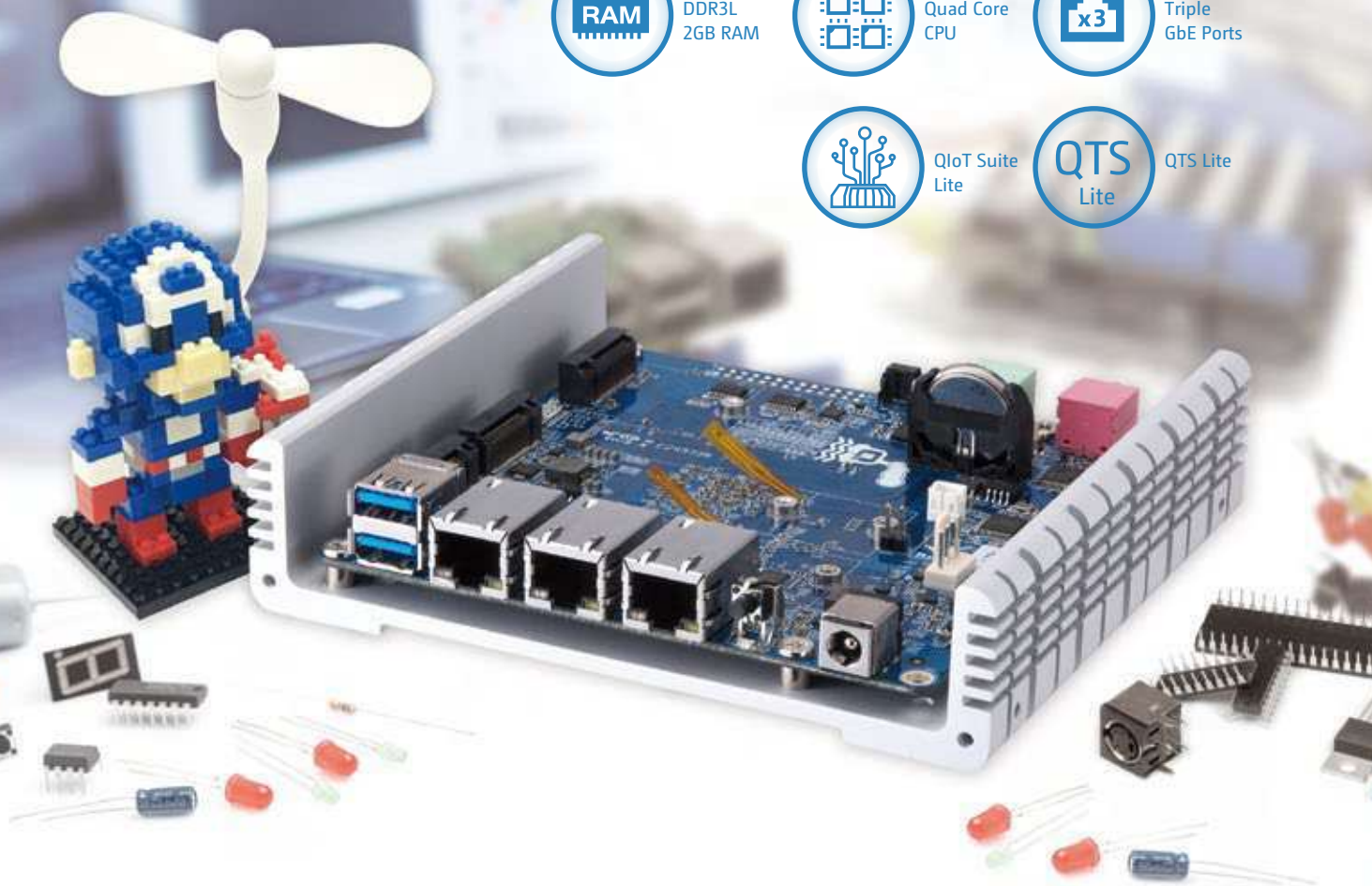
Triple  
GbE Ports



QIoT Suite  
Lite



QTS Lite



## Powerful and compact system

The 12x12cm system features an AL-314 processor with 2GB RAM, allowing QBoat Sunny to run various applications in parallel for simultaneous IoT applications.

## Streamlined QTS Lite operating system

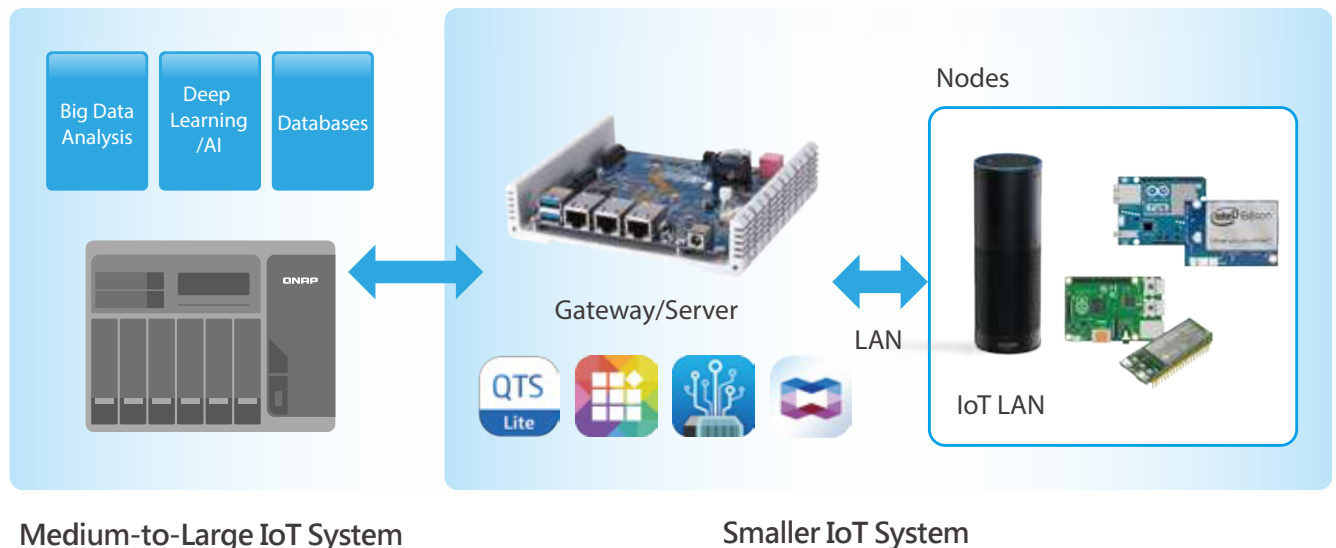
QTS Lite provides a solid foundation for data security, remote connectivity, and can manage virtual and physical network connections.

## Easy to create and maintain a private IoT Gateway

QIoT Suite Lite provides out-of-the-box functionality to accelerate IoT development and deployment. Existing IoT services can also be migrated to QBoat Sunny with container virtualization.

## Why QBoat Sunny?

QBoat Sunny is a dedicated single-board Internet of Things (IoT) mini server featuring Container Station and QIoT Suite Lite. QBoat Sunny allows you to seamlessly manage and monitor IoT applications, devices, and data for a streamlined and efficient development experience. The scalability of QBoat Sunny can be harnessed by beginners and professionals alike to dive into the world of IoT, or for users looking for a small and portable server/gateway for their existing projects.



## IoT-optimized QTS Lite operating system

QTS Lite is a streamlined version of QNAP's award-winning QTS operating system. QTS Lite provides Container Station to run containerized applications, myQNAPcloud for remote connectivity, Hybrid Backup Sync for backup and synchronization, and Network & Virtual Switch for managing network connections and linking containers. QTS Lite also features an App Center for adding more features and functionality.



### myQNAPcloud

myQNAPcloud streamlines remote access by removing the need to deal with complex network and firewall configurations. Users can remotely access QBoat Sunny via myQNAPcloud and check real-time information of connected IoT devices.



### App Center

The App Center within QBoat Sunny provides users with the ability to quickly add more features and functionality. Multiple apps from QNAP and third-party developers are available for instant download and usage.



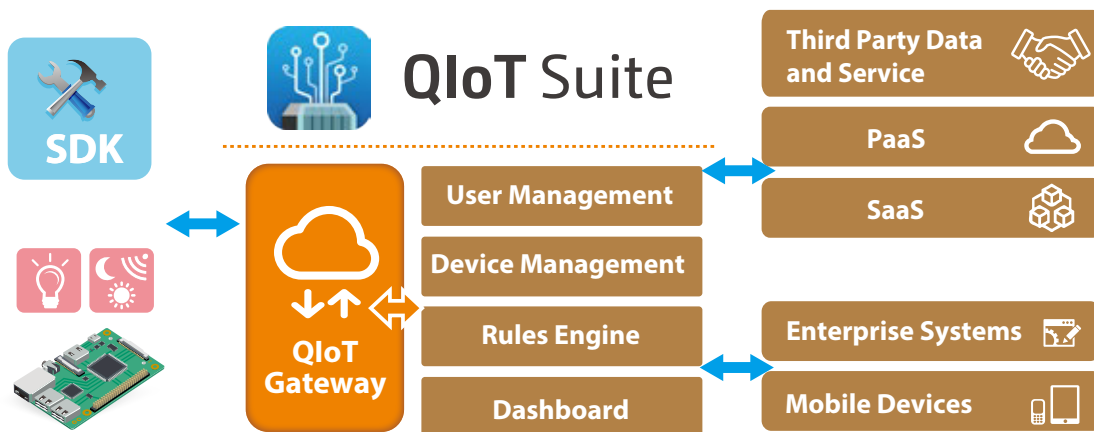
## Applications for QBoat Sunny



### QIoT Suite Lite

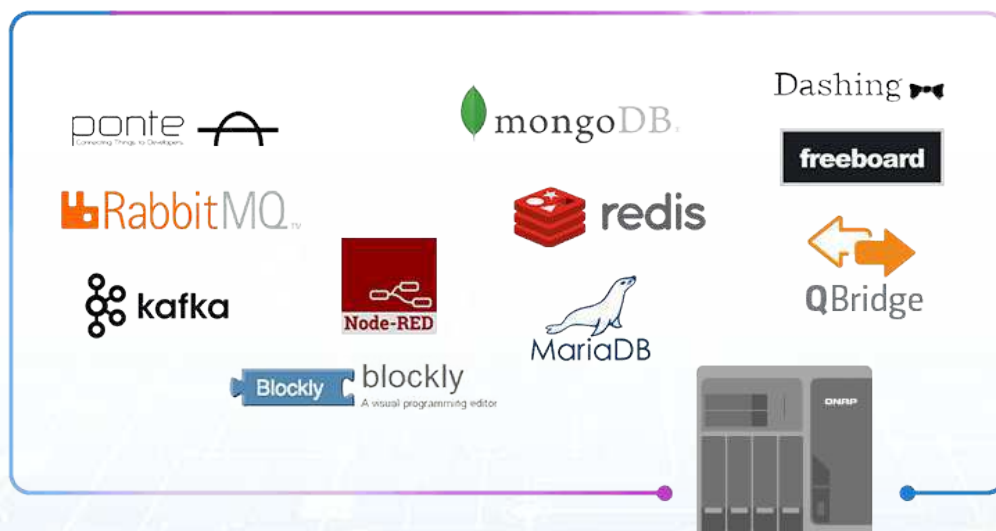
With QIoT Suite Lite, QBoat Sunny can act as Fog nodes or Edge devices that collect all telemetry data from local devices/sensors and transmit selective data back to the main QIoT server to bridge the gap. QIoT Suite Lite provides the following features:

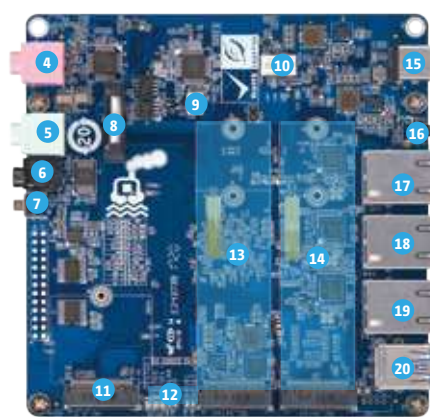
- Supports MQTT, MQTTs, CoAP, HTTP, and HTTPs
- Easily set up rules with Node-RED
- IoT Visualization
- Supports multiple development boards
- Easy integration with multiple APIs
- Secure connection with X.509 certification.



### Container Station

While QIoT Suite provides a simple method for IoT beginners to deploy and manage different devices, Container Station allows advanced makers to migrate existing environments as a Docker image into QBoat Sunny. Multiple Docker images can be activated on QBoat Sunny in parallel, and developers can assign different physical network interfaces between them.





- |                             |                       |                              |
|-----------------------------|-----------------------|------------------------------|
| 1 Annapurna Labs AL-314 CPU | 9 RTC power           | 17 Gigabit Ethernet port 1   |
| 2 512MB NAND flash          | 10 Fan connector      | 18 Gigabit Ethernet port 2   |
| 3 2GB DDR3L memory          | 11 M.2 expansion slot | 19 Gigabit Ethernet port 3   |
| 4 3.5 mm microphone jack    | 12 LED indicators     | 20 USB 3.1 Gen1 Type A ports |
| 5 3.5 mm headphone jack     | 13 M.2 SSD slot 1     |                              |
| 6 Maintenance port          | 14 M.2 SSD slot 2     |                              |
| 7 Reset button              | 15 12V power port     |                              |
| 8 RTC battery               | 16 Power button       |                              |

## Hardware Specifications

| Model            | QBoat Sunny                                                            |
|------------------|------------------------------------------------------------------------|
| CPU              | Annapurna Labs AL-314, 4-core, 1.7GHz                                  |
| System Memory    | 2 GB DDR3L (On-board)                                                  |
| Flash Memory     | 512MB NAND                                                             |
| M.2 Slots        | 2 x M key 2260/2280 (m.2 SATA SSD)<br>1 x A key 2230 (Wireless module) |
| SATA             | SATA 6Gb/s M.2 SSD                                                     |
| USB Ports        | 2 x USB 3.1 Gen1 Type A                                                |
| Ethernet Ports   | 3 x 1GbE RJ45                                                          |
| Audio In/Out     | 1 x 3.5mm Audio-in, 1 x 3.5mm Audio-out                                |
| Maintenance Port | 1 x 3.5mm                                                              |
| LED Indicators   | Status, SSD, Wireless, User Define                                     |

| Model                 | QBoat Sunny                                                            |
|-----------------------|------------------------------------------------------------------------|
| Buttons               | Power, Reset                                                           |
| Type                  | System Development Board with Heatsink Base                            |
| Dimensions            | 5.67 x 4.96 x 1.32 inch<br>144 x 126 x 33.5 mm<br>(Heat Sink Included) |
| Weight                | Net: 1.08 lbs (0.49 kg) Gross: 2.31 lbs (1.05 kg)                      |
| Power Consumption (W) | SSD Idle: 9.49 W<br>In operation: 13.31 W                              |
| Working Temperature   | 0-35°C                                                                 |
| Humidity              | 5 to 95%, non-condensing, wet bulb temperature: 27°C                   |
| Power Supply          | External, 36W, 12V                                                     |
| Fan                   | 1 x 4-pin connector                                                    |

## Accessories

QBoat Sunny, Ethernet Cable, Quick Installation Guide, AC Adapter, Power Cord, Wall Mount Kit, M.2 Screw Kit, 2x M.2 SSD Heat Sink

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