QNAP
QRM+
Explained
Use Your Smartphone to
Remotely Manage
Networked Computing
Devices
04/23 QRM+ LIVE BROADCASTING

1 QRM+ Introduction

2 How to Use QRM+ with QGD-1600P

3 QRM+ Application Instructions:
Using QGD-1600 as a server and manage end-devices

One-key Installation, Complete Your Management Requirement of End-devices

QNAP

“ How to Monitor Various Computer Facilities and Cloud Virtual Machine Status Immediately when You are Not Beside the Machine Room ? ”

— IT Manager

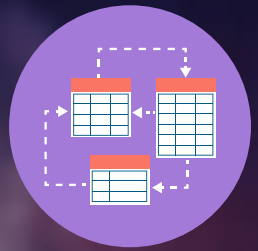
Market Comparison Analysis

	QNAP	Data Center SNMP-based CMS	Cloud CMS
Product	QRM+	Teamviewer/Spiceworks/SolarWinds/	Spiceworks/WhatsUp Gold
Support end OS	Windows/Linux/IPMI	Windows/Mac OS X/Linux /Unix	Windows/Linux
Price	Free	Free/By year	Free/By device number
Operation	**One key-press, Friendly user interface, Easy to use**	**Commercial advertising,** Complicated user interface	Easy to setup
Control Center	Private	Private	**Public**

QRM+ Solve Your Requirement of Managing Devices

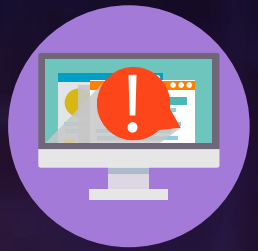
Remotely manage devices

- CPU usage
- Memory usage
- Hardware usage
- Network usage
- Power state control



Data collection & analysis

- Collect problems



Root cause analysis

- Problem analysis
- Crash recovery

On-site maintenance

- Preventive maintenance
- Equipment improvement

QRM+ Introduction

Using QRM+ Operator Can Control Multiple Clouds & Devices

QRM+ Mobile

IT Manager

QGD-1600P

VPC

Ethernet

Ethernet

Internet

Azure,
AWS, ...

VM

VM

Powered Devices

Machine room 1

Powered Devices

Machine room 2

Powered Devices

Machine room 3

What is Centralized Management (QRM+)?

QRM+ Simplifies Your Devices Management Workflow

Add devices

Comprehensive QRM+ Device Monitoring

Continuous Monitoring	Troubleshooting	Analysis	Issue Prevention
• Data collection • Dashboard • Network topology	• Support IPMI • Web-based remote access	• Historic data • Remote recording and playback	• Alert and notification • Log Management

Management of Different Equipment

- Windows 7, 8, 10
- Windows Server 2003, 2008, 2012
- Windows Vista
- Windows XP
- All platforms

- Ubuntu
- CentOS
- Debian

IPMI

- Support IPMI 1.5/2.0
- Support KVM over IP
  - Supermicro IPMI
  - IEI IPMI

Lightweight Agent - QRMAgent

- QRM+ server monitors and controls all the devices with QRMAgent
- Provides convenience and security for automatic deployment or remote configuration

Supports Windows and Linux devices

Supported Versions of QRMAgent

HW Architecture / OS	Supported versions
x86 - Windows	Windows XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012
x86-64 - Windows	Windows Vista/7/8/8.1/10, Windows Server 2003/2008/2012/2016
x86-64 - Linux	Ubuntu 12/14/16, Debian 8, CentOS 6/7

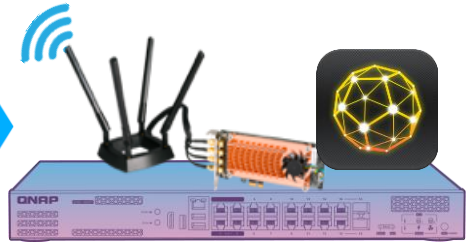
How to Use QRM+ with QGD-1600P

QGD Solves Deployment Requirement of Your Terminal-equipment

QRM+ mobile

Centralized Management

QGD-1600P



Terminal/virtual equipment

Industrial Panel PC

QRMAgent

QRMAgent

QRMAgent

QRMAgent

What is Guardian QGD-1600P?

Cloud manager

Mobile Apps & utilities

QNAP App Store

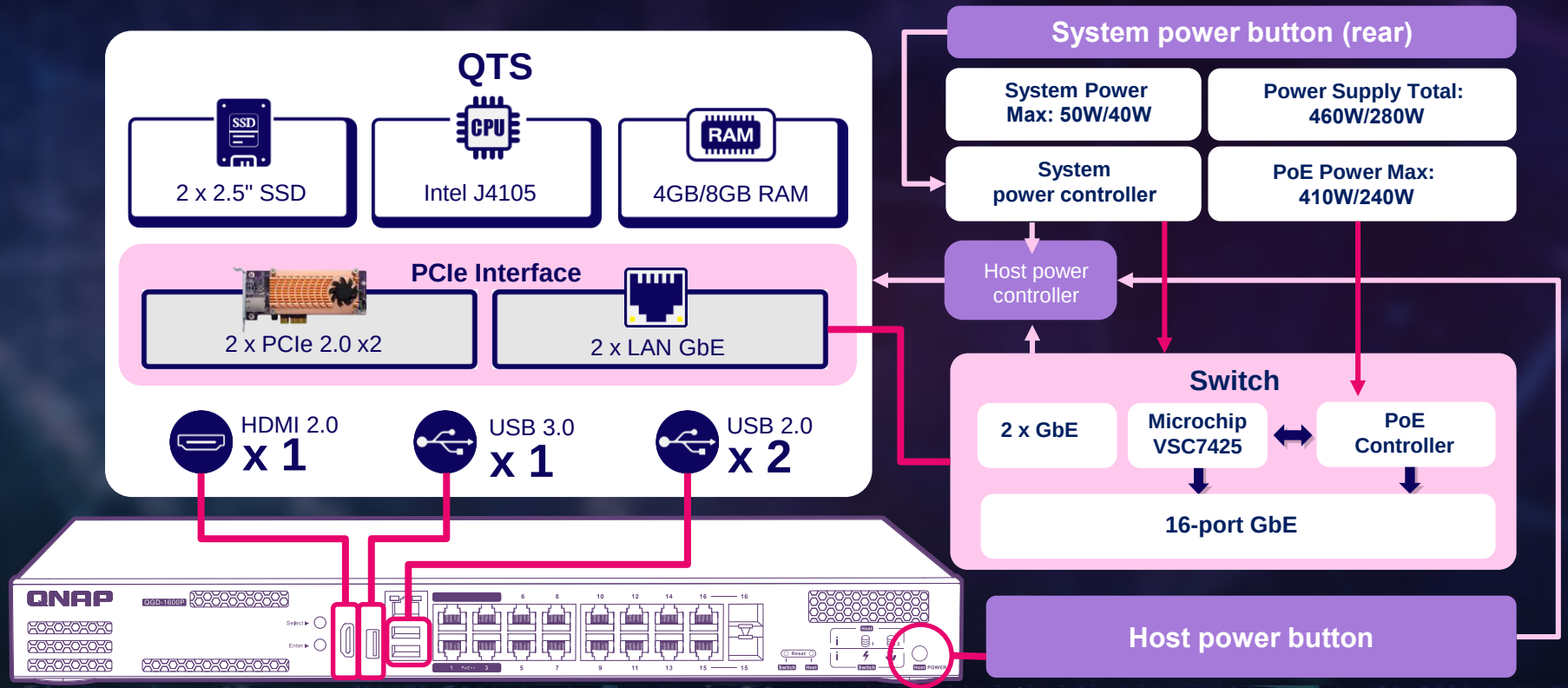
QTS

- Cloud Agent
- Guardian Network Switch Manager
- Apps
- VM management (KVM & Docker)
- App store
- Storage management
- User management
- Device management
- System management
- Basic OS

Network Switch System

- PoE power management
- Managed switch

Guardian QGD-1600P-
Hardware Diagram



Advantages of Using QRM+ & QGD-1600P

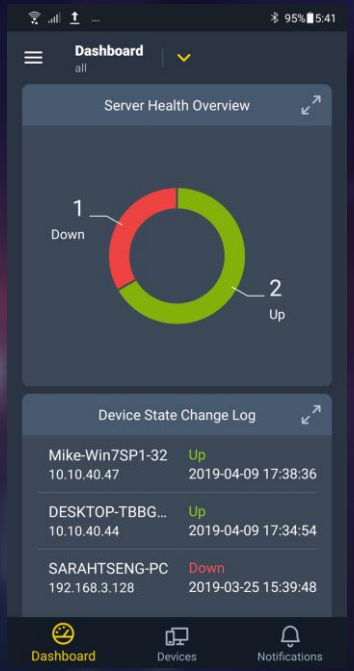
- Unrestricted device location
- Strengthen management of network equipment (IP camera) and powered device (Panel PC)
- Reduce the risk of power supply
- Reduce cost of operational maintenance
- Suitable for a variety of places (factories, hospitals, machine rooms) and other network management complex areas

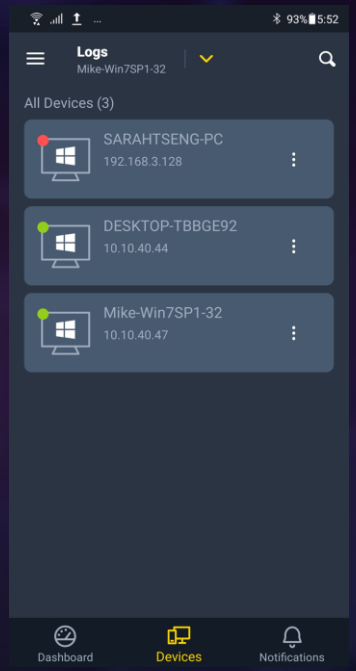
• Integrates NAS, managed switch, and Power over Ethernet (PoE)

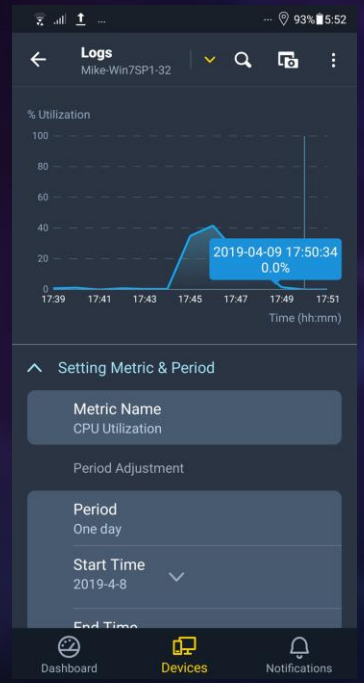
• Support various QNAP applications

QRM+ Mobile

QRM+ Mobile is a **centralized remote management application** that allows you to manage and monitor networked devices using your mobile device.







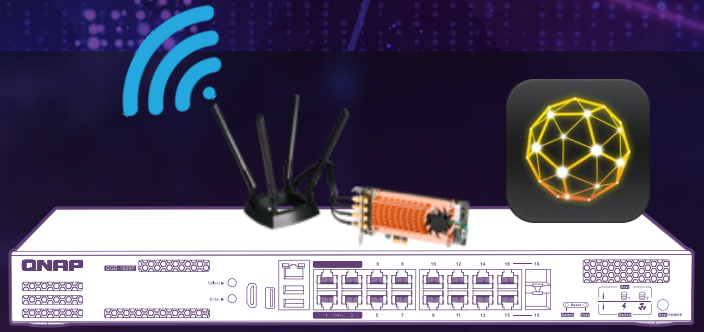
QRM+ Application Instruction

Using QGD-1600P as a server and manage end-devices

Install QRM+ in QGD-1600P

1

Install QRM+ in QGD-1600P with QNAP QTS 4.4.1



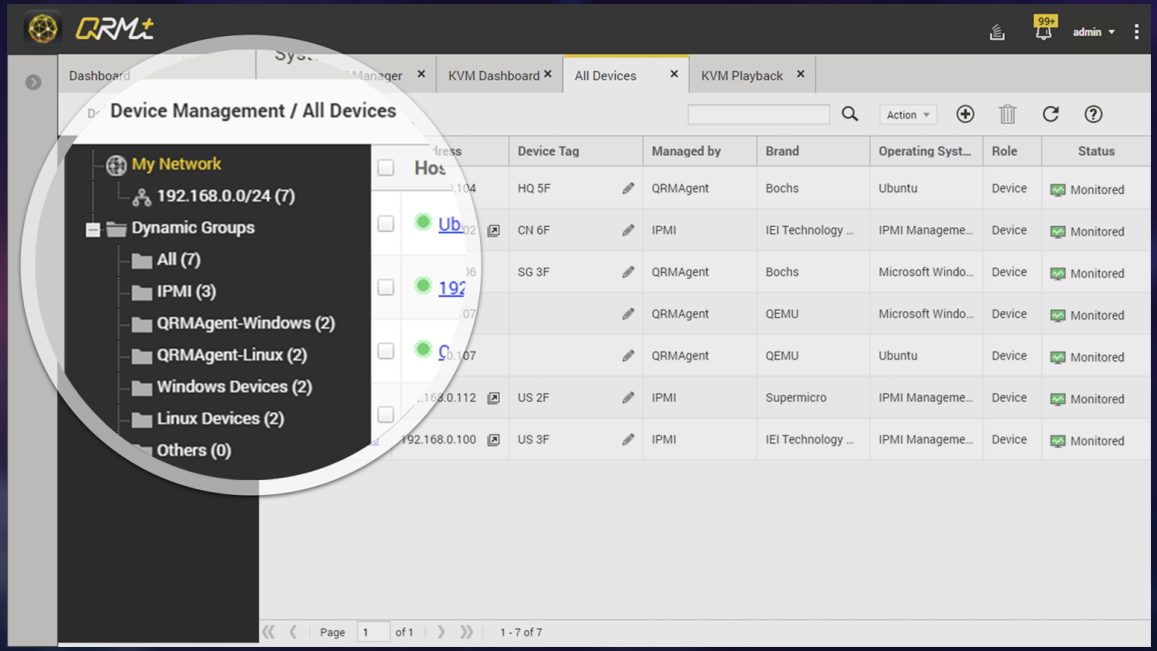
QNAP QTS System

- Intel® Celeron® J4105 Processor
- 4GB RAM
- USB 3.0 x 1
- USB 2.0 x 2
- Two SATA 2.5-inch drive bays
- PCIe slot x 2 : Supports QM2 expansion and wireless cards
- HDMI x1: View live recordings via HDMI-out

Add Devices to QRM+

2

To scan a specific IP range and add devices to QRM+

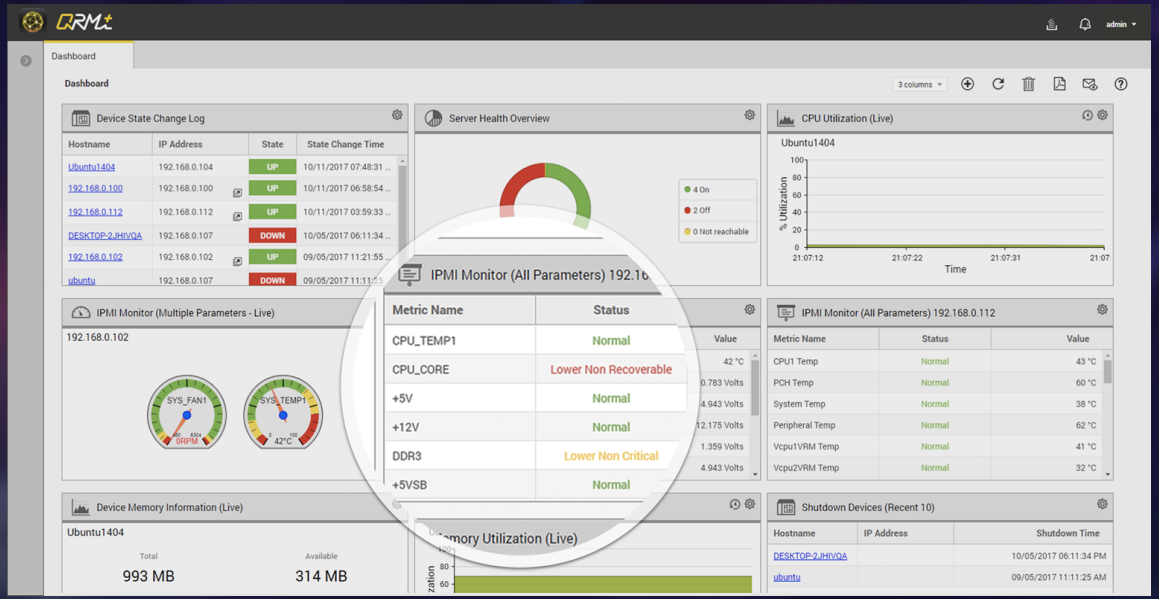


Device Data Collection

3

Manager install QRMAgent to your device first, agent can filter data before sending back.

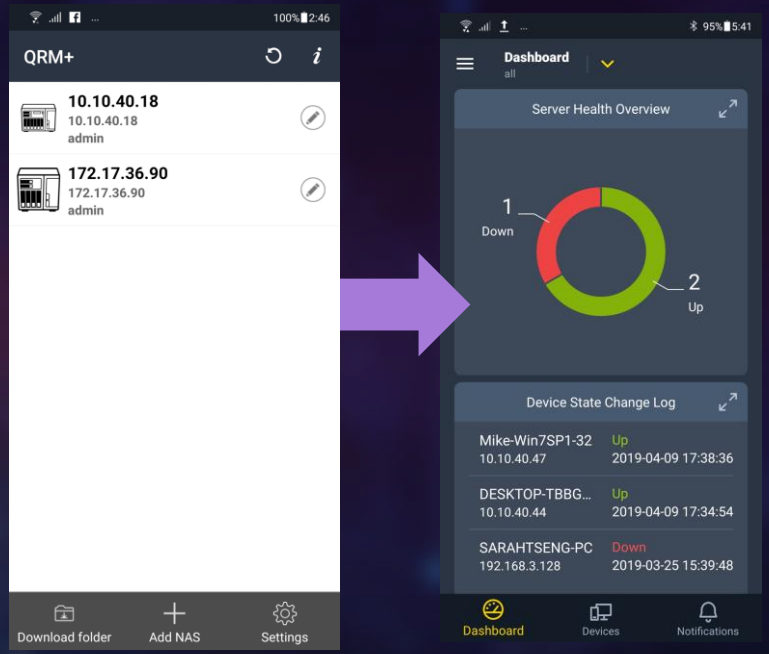
Using Dashboard to overview the device status.



QRM+ Mobile, Speed Up Management Devices

4

Manager install QRM+ mobile and add NAS to monitor your devices immediately.



QRM+ Requirements

1

X86-based NAS

(Intel and AMD processor)
requires a minimum of 4 GB RAM and QTS 4.3.x (or later).

2

ARM-based NAS

(64-bit)
requires a minimum of 4 GB and QTS 4.3.4 (or later).

QRM+ Centralized Management Solution

Solve Your Machine Room Devices by Single Clicking

Install QRM+ to Start
Your Remote Management

QRM+

QRM+ mobile

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