

2018 New era of artificial intelligence

# 打造智慧雲平台

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QNAP



# QNAP NAS (network attached storage)



# QTS 應用程式



## Container Station

Lightweight Linux virtualization solution  
獨家支援LXC與 Docker®



## QRM+

QNAP Remote Manager Plus  
遠端管理整合方案



## QVR Pro

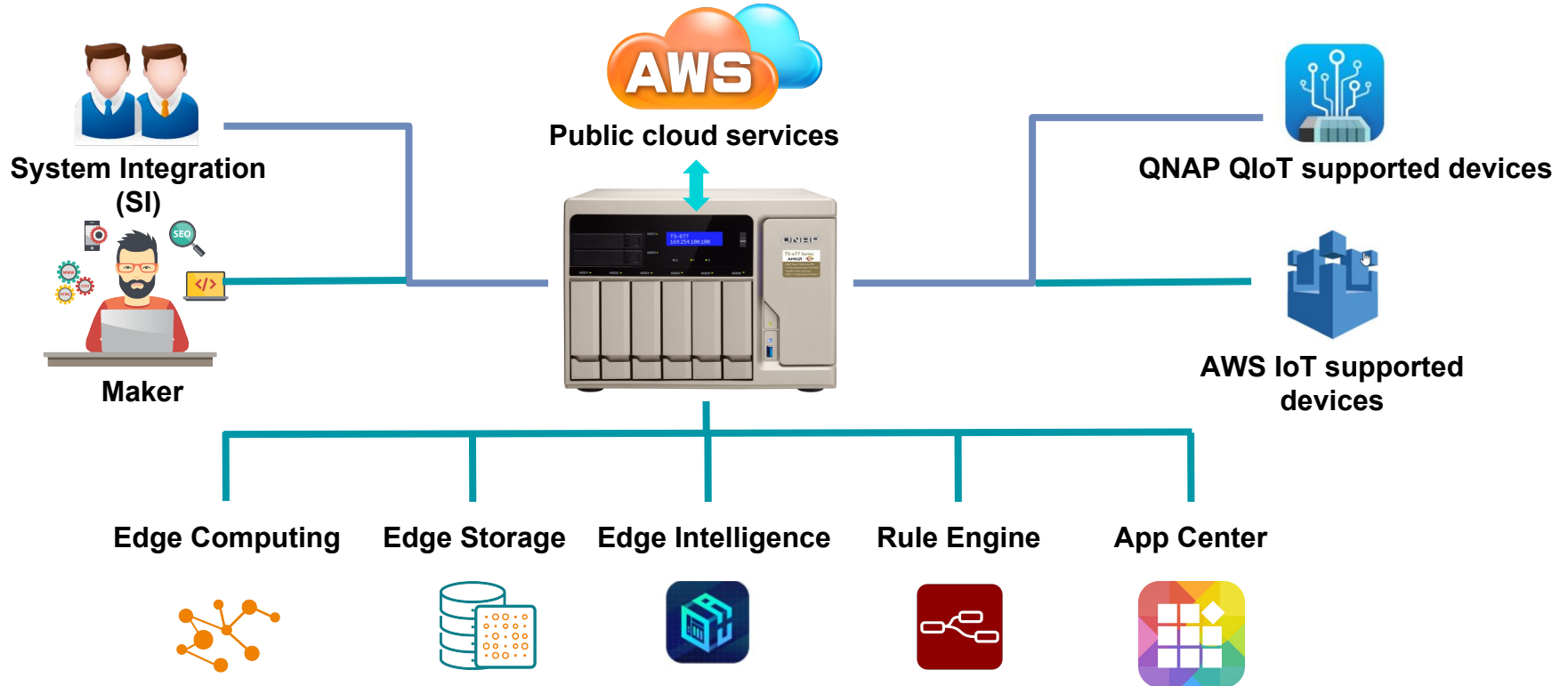
Video Surveillance System  
遠端管理整合方案



## QIoT Suite Lite

QNAP的 IoT 私有雲平台, 支援 IoT 系統微服務架構應用

# Intelligent edge computing





# Ride the AI wave with "QuAI" from QNAP

## QuAI AI Developer Package

Is intended for data scientists and developers to quickly build, train, and optimize their AI Models on QNAP NAS.



AI

+



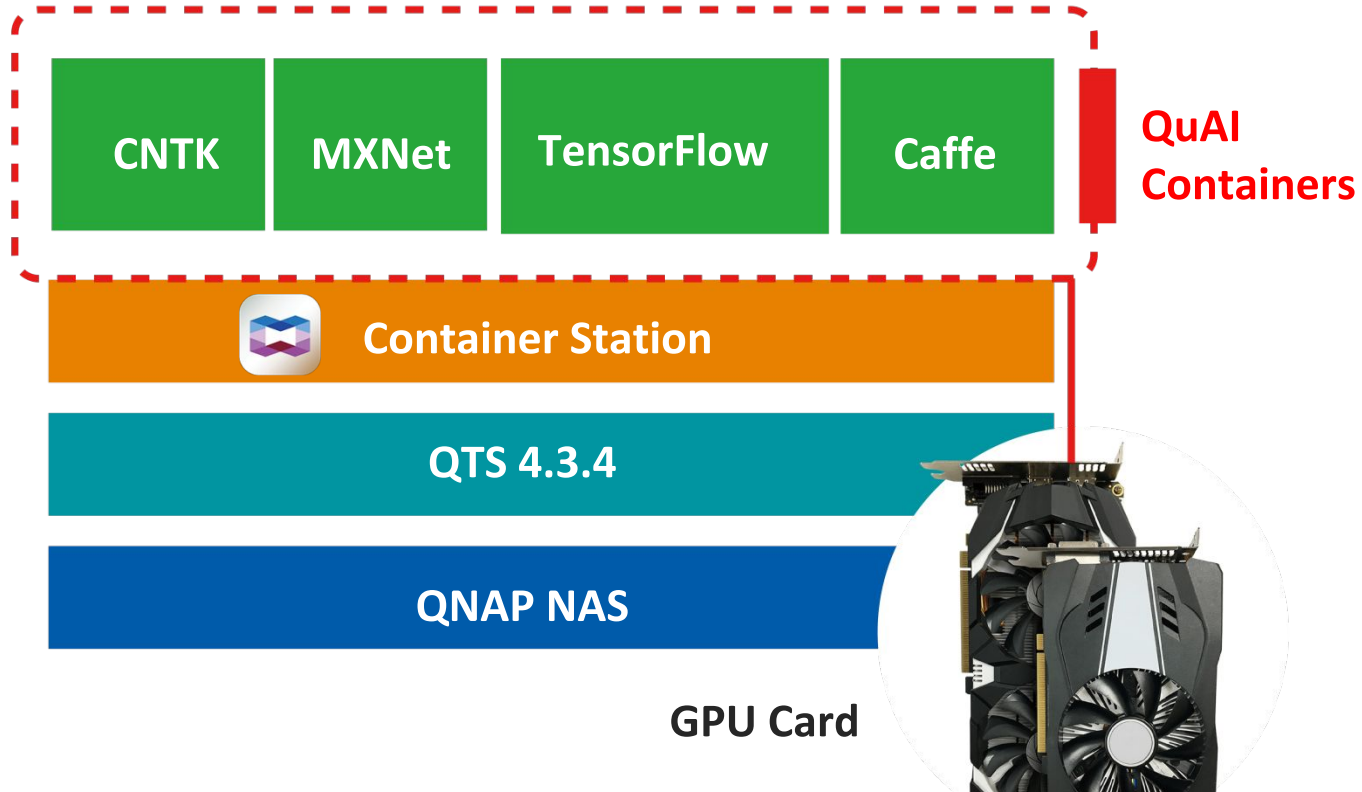
QNAP NAS

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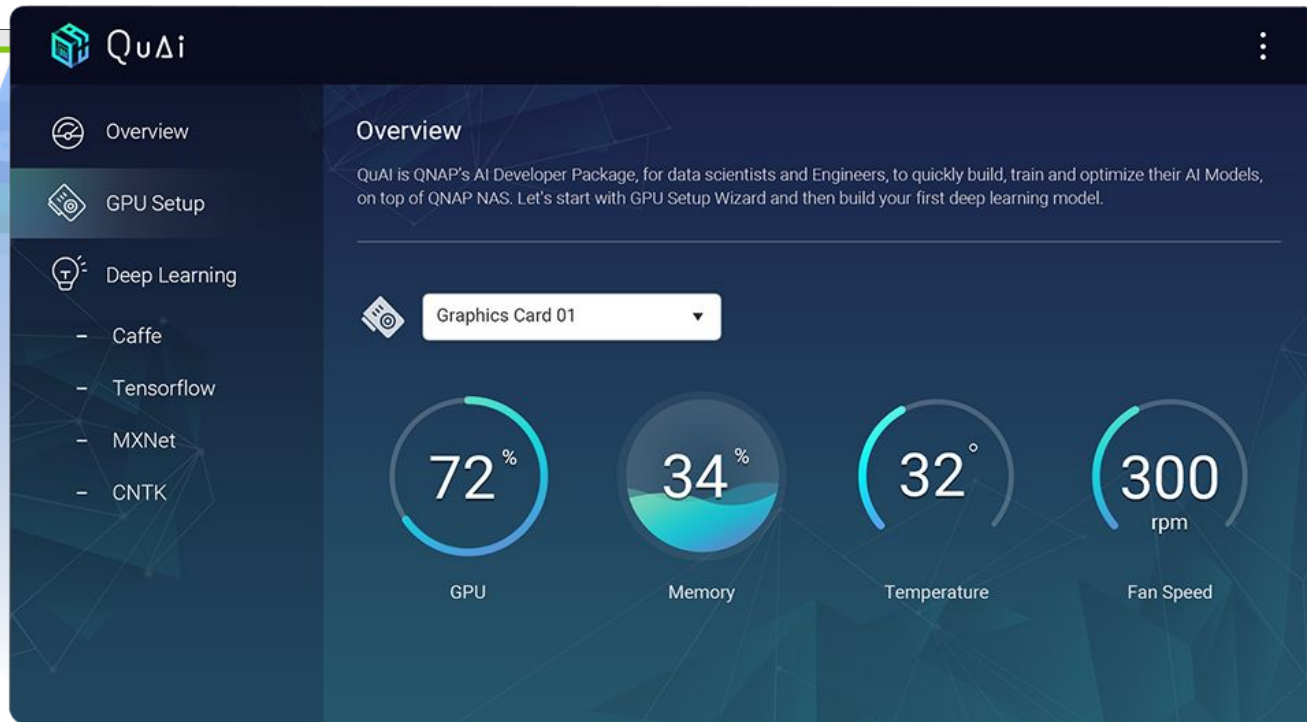


QuAI

# QuAI architecture



# Install and run QuAI from the QTS App Center



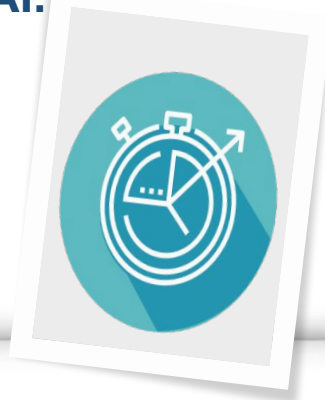
# Why QNAP NAS for AI?



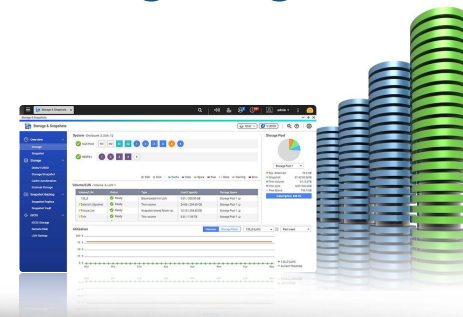
Low investments  
and high gains



It's FAST, EASY, and it  
is QuAI.



Designed to  
manage huge data:



High IOPS:



Multiple layers  
of data protection





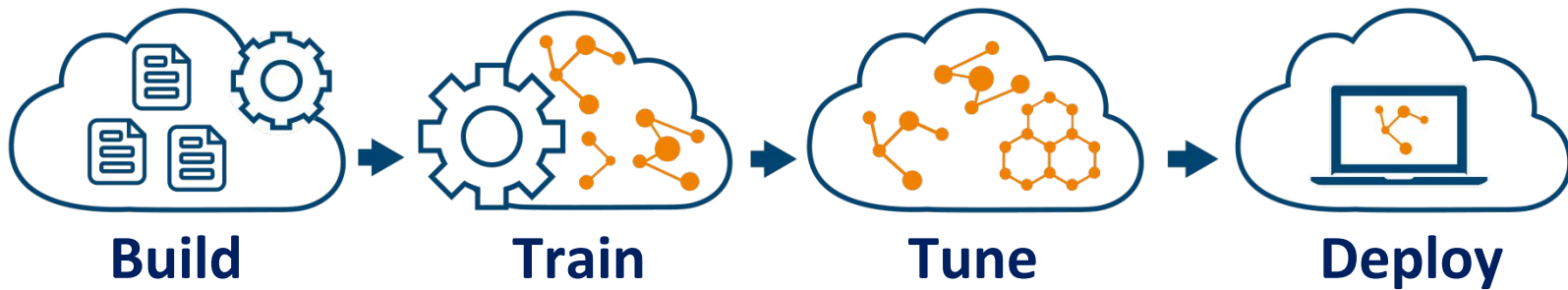
# Pain points for data scientists



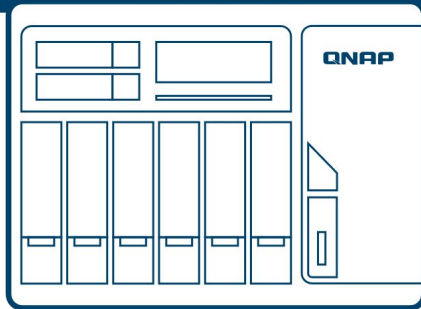
- Usage of Laptops/Desktops, limited storage and compute.
- Lack of knowledge to setup NVIDIA GPU drivers, containers, GPU passthrough, etc.
- Lack of knowledge to setup data backup/sharing, network configurations, etc.



# Riding the AI wave with QNAP “QuAI”





















**QuAI**



# QNAP x IEI offerings - Making AI possible!



## Image Classification / Object Detection - QuAI

	Training			Inference			
Entry-level models	<div></div> <div>TS-x77TVS-x82</div> <div></div> <div>TS-1677XTS-x77XU</div>		NVIDIA GPU Cards	Entry-level models	<div></div> <div>TS-251BTS-x53Be</div> <div></div> <div>TS-x53B</div>		GPU/IGD
	Advanced models	<div></div> <div>TS-1685TS-2888XTES-x85UTDS-16489U</div>			Multiple NVIDIA GPU Cards	Advanced models	

# 案例分享：智慧醫療影像分類

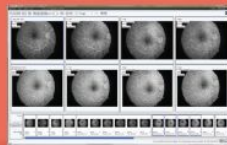


01



OCT Equipment

02



QPACS  
DICOM Server



DNN Model  
Training



03



Category:

- Normal
- Active Wet
- Drusen
- Inactive Wet



Inference Service



# 案例案例：監控即時人臉辨識

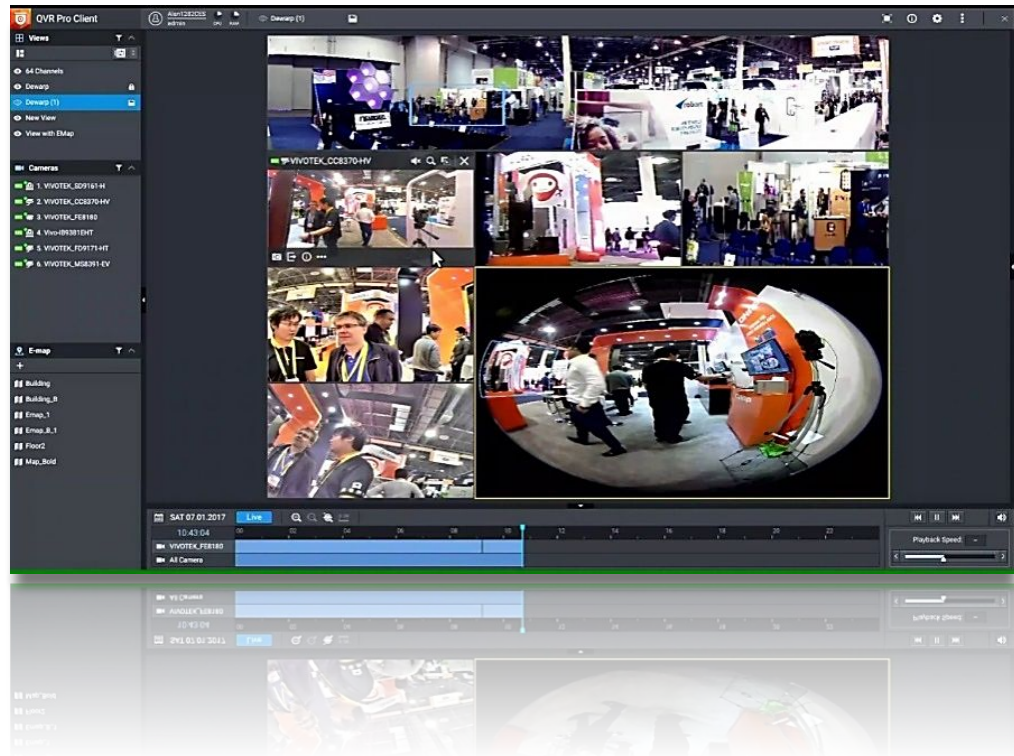


## • Purpose

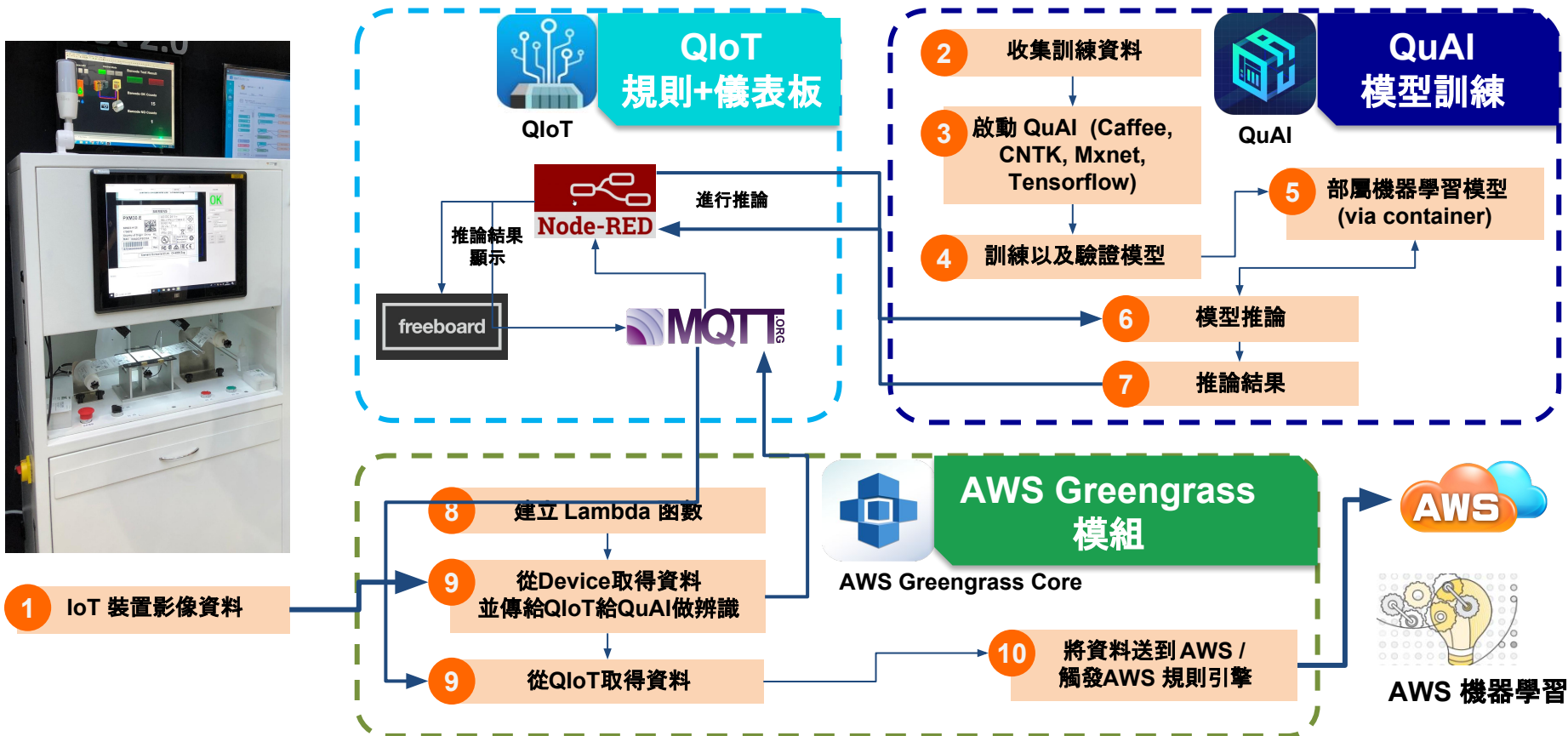
- Face recognition
- Early alarm  
(e.g. fire, smoke)
- Suspicious detection  
(e.g. things that should not be carried)

## • Data source

- IP cameras



# 案例案例：工業用影像分類搭配公有雲服務



# QNAP x IEI SMART IIOT Solution Ecosystem Powered by Intel

## AI Training



TS-2888

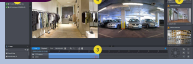
TS-1685

IEI GRAND-C422

On Cloud

On Premises

SMART IP Cameras



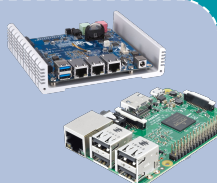
QVR Pro

Industrial Devices



OPC-UA PLC

IoT Sensors and Peripherals



IoT Starter Kit

Rule

AI inference

## QIoT Suite

Rule + AI inference

Telemetry Data  
Trained Model (for Inference)

IoT Dashboards



## QCPE

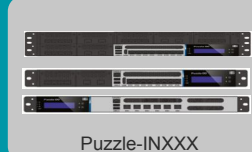


QTS

QNE/ Ubuntu



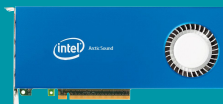
QNAP NAS



Puzzle-INXXX



Intel CPU



Intel GPU



Accelerator Cards

# AfoBot - 智慧型陪伴機器人



AfoBot - 智慧型陪伴機器人

- 採用 Android 6 為基礎
- 可支援 QNAP 多款行動應用程式, 進行 NAS 操控管理、娛樂功能等應用
- 以語音互動方式協助 NAS 管理、娛樂和及時通訊等服務





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THANKS