



Quanta Computer

Embedded  
world  
2017

## Smart Home, Smart Building Solution

QF6

EQLink Solution  
Homebase PC  
QF6





# About Quanta

Established in 1988, Quanta Computer is the largest notebook computer ODM company in the world. With leading technology and strong R&D capability, Quanta has become a leader in hi-tech markets and the best partner providing quality design and manufacturing services to top-notched brands worldwide for technology products. On top of the success in notebook PC market, Quanta has extended its business into communication, networking, consumer electronics, auto electronics and cloud computing solutions. With revealing "Cloud Computing" as the center of business innovation and development, Quanta has been integrating resources and redefining business model to capture emerging growth opportunities.

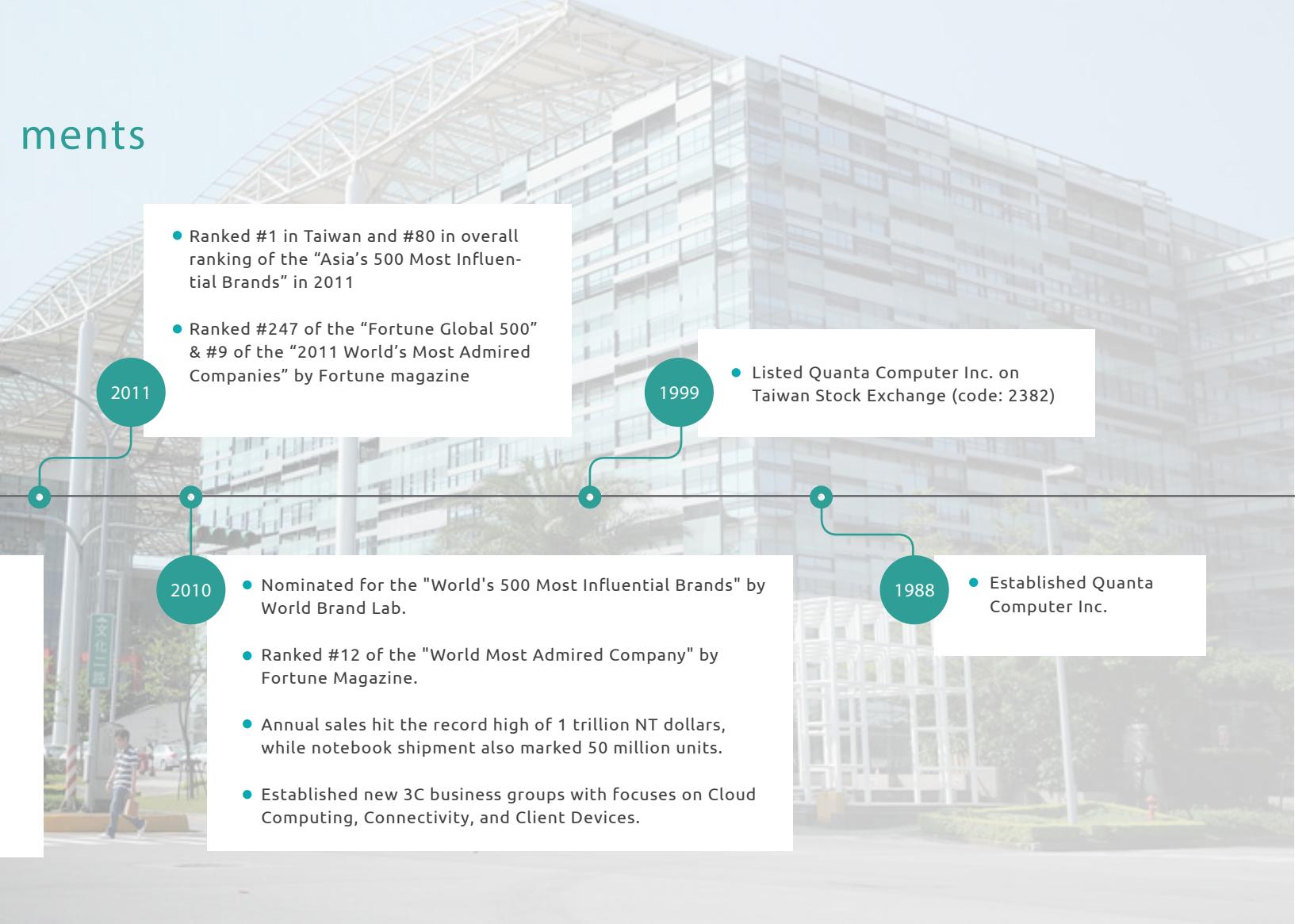
"Rooted in Taiwan with broad vision and aggressive expansion in the global market" is Quanta's strategy for long-term growth development. With "Quanta R&D Complex" (QRDC) as our global headquarters and the center of dynamics, we integrated worldwide resources in technology to ensure that Quanta Computer Inc. has technological advantages to design, develop, and manufacture high value-added products and solutions for customers. In addition, we have established operation centers across Asia, America, and Europe to manufacture, configure, and service products as well as to provide logistic supports to deliver products and services competitively everywhere in the world.

Quanta Computer continues to seek innovation and strives to exceed excellence through innovative product design, core technology advancement, and expansion into Non-NB product development. Quanta Computer is vastly invested in research & development with focuses on product innovation to further advance our competitive edge. In recent years, we have continuously demonstrate our innovative thinking in various areas, including cloud computing technology, servers, high definition video conferencing systems, touch panels, manufacturing processes, 3D images, and satellite technology. Furthermore, many intellectual property rights were granted to the aforementioned technology, while we expect to commercialize those innovative ideas in the future. The core business of Quanta Computer lies in notebook PCs, the area that we constantly demonstrate expertise and excellence in notebook manufacturing technology and innovative product design. In addition to our core business in notebook PCs, we expect product diversification into other non-NB area to accelerate gradually in coming years.

## Major Accomplish



# ments

- 
- Ranked #1 in Taiwan and #80 in overall ranking of the "Asia's 500 Most Influential Brands" in 2011
  - Ranked #247 of the "Fortune Global 500" & #9 of the "2011 World's Most Admired Companies" by Fortune magazine

2011

- Listed Quanta Computer Inc. on Taiwan Stock Exchange (code: 2382)

1999

- Nominated for the "World's 500 Most Influential Brands" by World Brand Lab.
- Ranked #12 of the "World Most Admired Company" by Fortune Magazine.
- Annual sales hit the record high of 1 trillion NT dollars, while notebook shipment also marked 50 million units.
- Established new 3C business groups with focuses on Cloud Computing, Connectivity, and Client Devices.

2010

1988

- Established Quanta Computer Inc.

# Global Service Network



## Quanta Computer Inc. (Taiwan)

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**EQLink Hub**  
A distributed wireless system  
for connected home

**Smart Speaker**  
Voice centric user interfaces

**Multi-functional Robot**  
A reliable guard & servant

- Linking smart gadgets & legacy appliances .
- Integrates software, hardware, voice recognition & cloud services .

**EQLink™**

A PLATFORM FOR **IoT SOLUTION**

# EQLink ECOSYSTEM

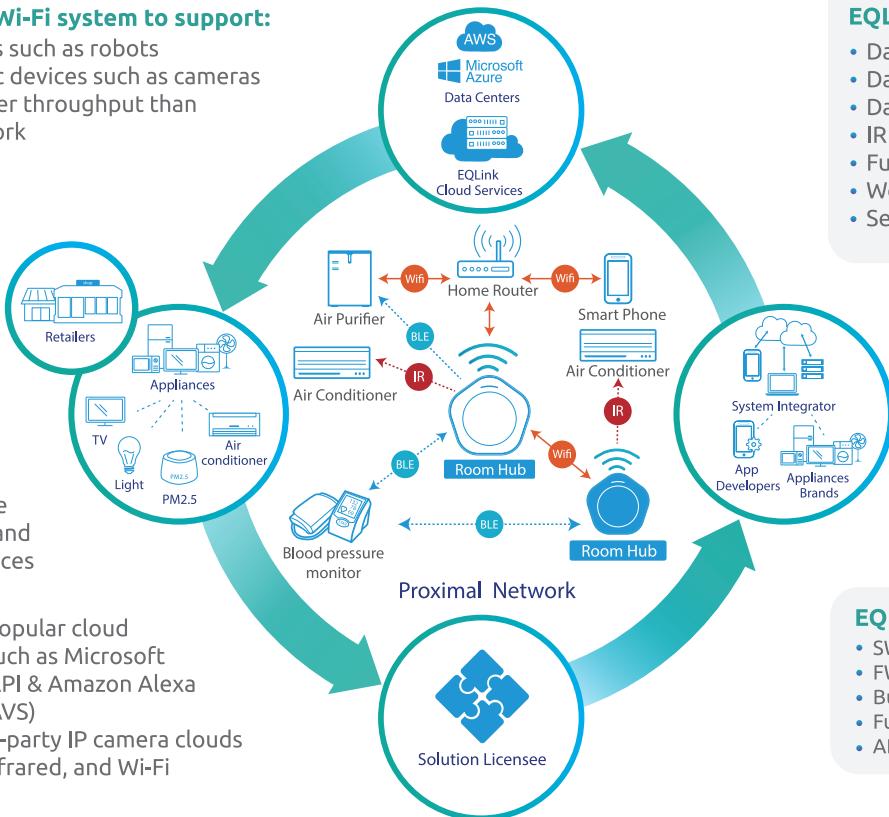
Already deployed in retail markets with proven success.

## A distributed Wi-Fi system to support:

moving gadgets such as robots  
high data traffic devices such as cameras  
with much higher throughput than  
the mesh network

Provide comprehensive End-to-End APIs through software license Customization and consulting services

Support most popular cloud voice engines such as Microsoft LUIS, Google SAPI & Amazon Alexa Voice Service (AVS)  
Work with third-party IP camera clouds  
Support BLE, Infrared, and Wi-Fi



## EQLink Cloud Service

- Data Collecting & Storage
- Data Filtering & Statistics
- Data Analysis & Prediction
- IR Database
- Function Upgrade
- Web Management Tool
- Server Setup & Host

## EQLink Integration Service

- SW/HW Integration & Customization
- FW Customization
- Bug Fixes
- Function Upgrade
- APIs/App Support



## Cloud Group Data

Statistics & trends of specific scopes

## Cloud Personal Data

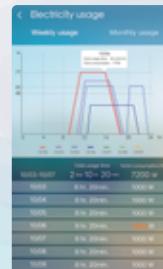
Statistics, trends & recommendation



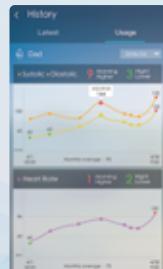
Air Quality



Temp/Humid



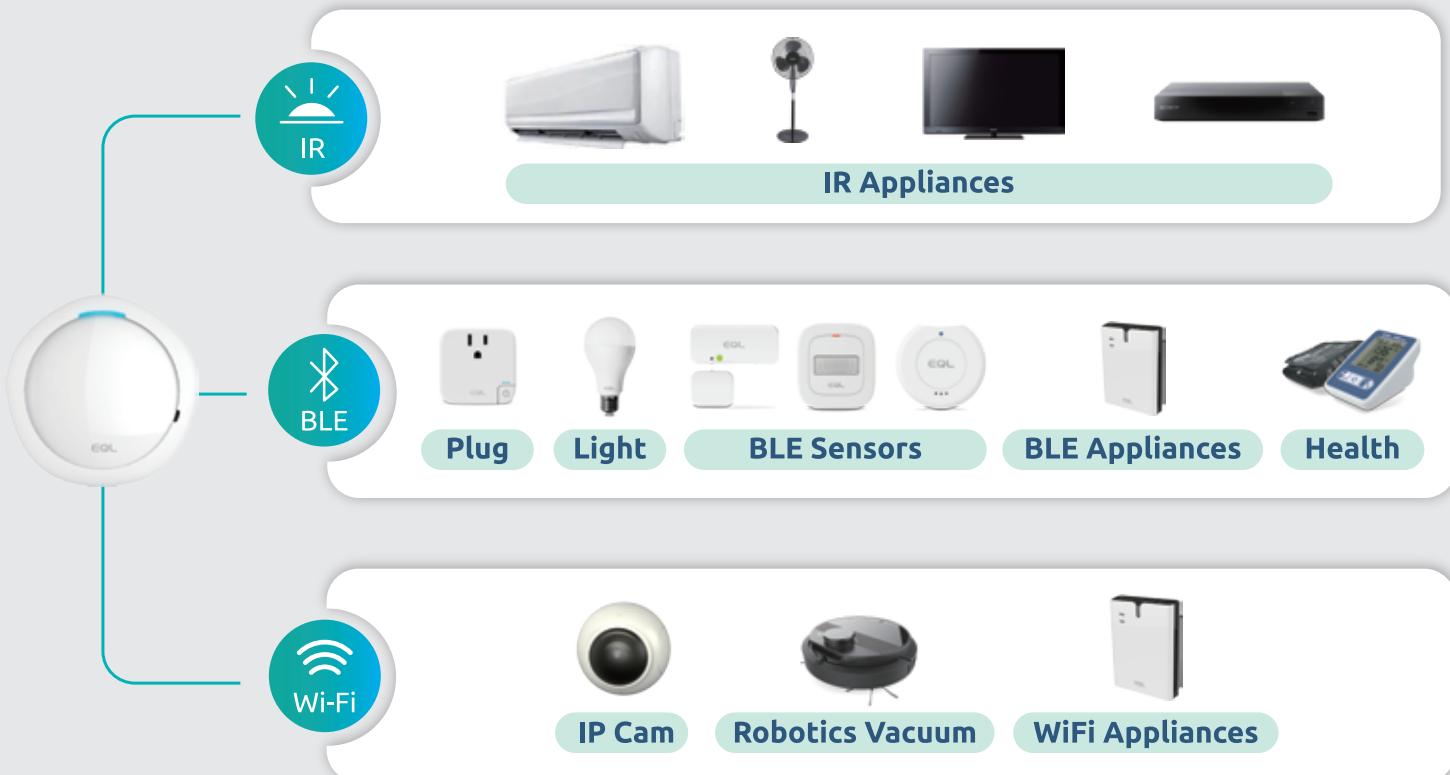
Power Usage



Health Record

# CONTROL

Link and control appliances via BLE, IR and WiFi.



# CONTROL API

User API	Device API	Sensor API	IR API	Account Manager	Onboarding Manager	Pairing Manager
Register Log in Password Friend list Group manage	Add device Update info Setting IR control Lock control	Add/Sync data Data History Plug data PM2.5 data BPM data Temp./Humi.	IR Learning AC/AV brand list AC/AV model list  Fan data Heater data Air Purifier data Scheduling data	<ul style="list-style-type: none"><li>Manager account</li><li>Manager friends</li><li>Manager login/logout</li><li>Share hub</li><li>Group management</li></ul>	<ul style="list-style-type: none"><li>Onboarding</li><li>BLE provision to hub</li></ul>	<ul style="list-style-type: none"><li>Add IR appliances</li><li>Add BLE appliances</li><li>Add Wifi appliances</li><li>Support encrypted transmission</li></ul>
Upgrade API	Data API	Native Notification API	MQTT Notification API	Hub Control	Appliance Manager	Observe Manager
Check Driver Add Driver Driver list Ver. control	AC usage time Paired hub info Device counts Token counts BPM data list Temp./Humi. list	IR command Broadcast Hub alert BPM notify New FW notify	Online status AC IR status Light on/off status Sensor Data FW update	<ul style="list-style-type: none"><li>Query hub state</li><li>DNSR</li><li>LED control</li><li>Setup hub</li><li>OTA control</li></ul>	<ul style="list-style-type: none"><li>Control AC,FAN, TV</li><li>Control Blub</li><li>Control Air Purifier</li><li>Control BPM</li><li>Control PM2.5</li><li>Control Door lock</li></ul>	<ul style="list-style-type: none"><li>Notify appliances state</li><li>Notify hub state</li><li>Notify command executed result</li><li>Door Lock status</li><li>Support GCM/APN/ MQTT</li></ul>

# MANAGED API







# Home Base PC

A partner to provide you an efficient working experience  
and bring you theater home sharing the moment with families/friends.





### Powerful platform

- Intel® Core™ Kabylake T



### Best communication

- Intel, AC8260
- USB3.1 type C
- Build in HDMI and DP to support 2 monitors at once



### Easy to install

- Monitor
- Power for entertainment
- Plus Keyboard
- Mouse for work

## Home Base PC



A smart and powerful home PC



Gateway as well as a storage



controller for the smart home  
devices (IoTs)



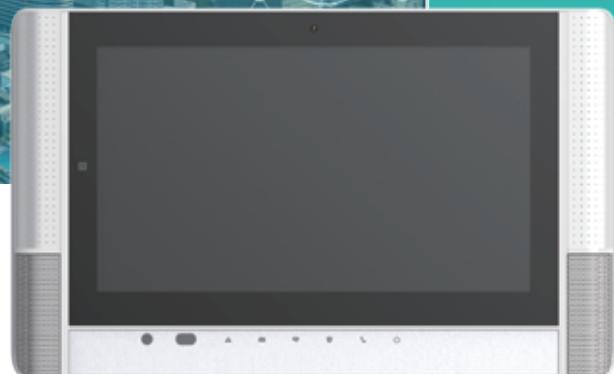
***For working,***  
Powerful platform bring  
an efficiency in work.

***For gathering,***  
Enjoy every moment shared  
with families and others.



# Specification

CPU	Intel® x86 Kabylake-S Core i3,i5,i7 serials 35W
Memory	Memory slot: 2, SO-DIMM , DDR4-2133, 4GB to 16GB
Storage	SSD: 128GB to 512GB, M2 type or HDD: 500GB to 2TB, 2.5"
Wifi	802.11ac, BT4.0 combo
Bluetooth	Bluetooth 4.0
IO Ports	Display – HDMI x 1, DP x 1 USB 2.0 x 1 / USB 3.0 x 2 Type C x1 – (Without PD function) Audio combo Jack x 1 Card reader (SDXC) x 1
Adaptor	90W
Physical Button	Power On/Off
LED	Power status indicator
CEC	Yes
OS	Windows 10
Dimension	168mm (W) x 165mm (L) x 36mm (H)



# Smart Gateway

For Office / For Home / For Community  
With IoT Devices & Applications





### Make home for a secured, green, and pollution free place.

- Security: Link Door lock/Sensor/ Camera
- Green: Link Room hub/Plug /AC
- Pollution-free: Link Room hub/Air Purifier/Sensors( PM2.5/Smoking/ air/humidity/temperature)



### Total solution

- Cloud data management
- Communication
- Surveillance and security
- Plug Outlet & Sensors (motion/air/humidity/temperature)



### Live in Dream city

- Auto-Parking
- Gate Control
- Public Facility Reservation
- Information Bulletin
- Visual control

## Smart Gateway



Connectivity



Surveillance & Security



Communication



Door Access



***For Community,***  
Use it for public facility  
reservation

***For Office,***  
Gate Control and door  
access



# Specification

	System	IO
Dimension	360mm*220mm*19.5mm	RS-485*2
CPU	Intel Baytrail T CR	USB Port*1
Display	11.6" LCD, 1366x768 with capacitive touch	Zigbee/Zwave with USB port*1 (optional)
DRAM	DDR3L2GB	Micro USB port*1
Storage	8GB eMMC	Audio Line In/Out with AEC *2
Front Camera	5Mp, 720, 60fps	Digital I/O interface*8
Audio	Speakerx1, Mic*1	<ul style="list-style-type: none"> <li>IR Receiver with learning function*1; Receiver *2; Transmitter *1</li> <li>DC-in, 12V/15W, barrel type</li> <li>POE 802.3 at 25W</li> </ul>
	Connectivity	Indication
Wireless	Wi-Fi 802.11 a/b/g/n, MIMO & BT 3.0 HS+4.0 LE (Dual mode)	LED*6 for Message, Alert, Security, Incoming call, Power Status, Mail
NFC	MiFare Type	Power Button*1
LAN	RJ45 with 10/100M base*2	Emergency*1