

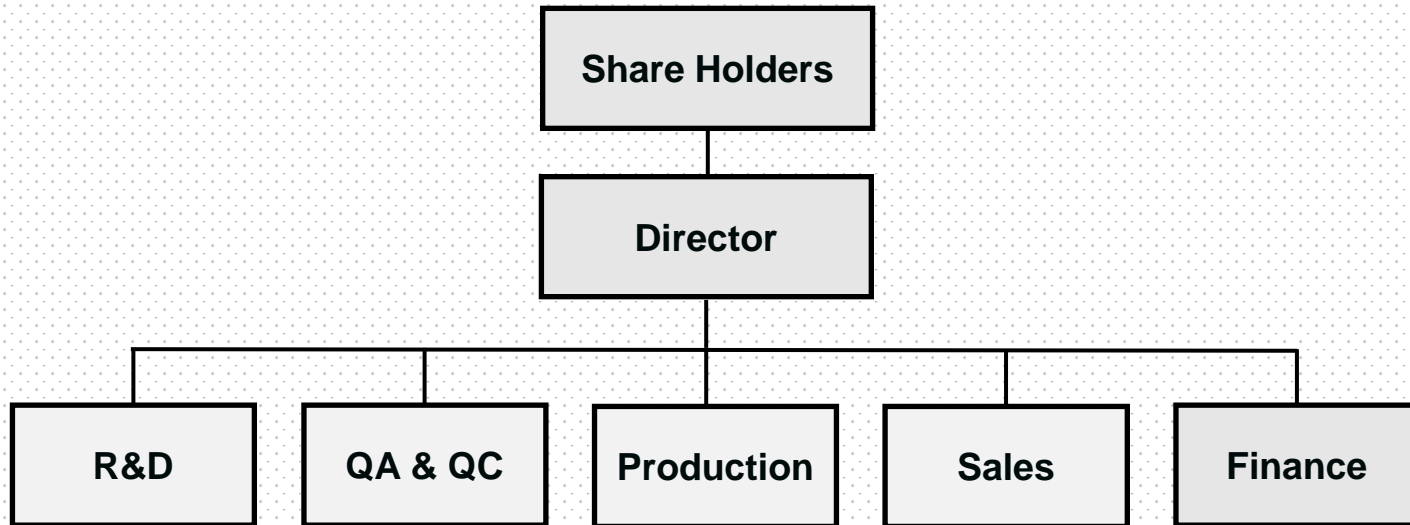
RAYTAC CORPORATION

- **Company Profile**
- **Milestone**
- **Product Introduction**
- **Factory Tour**

COMPANY PROFILE

- **Founded in Taiwan since 2004**
- **Initial Capital: US Dollars\$ 400,000**
- **Website: www.raytac.com**
- **Core Business:**
 - ✓ **Bluetooth Low Energy Module**
IC Solution from  **NORDIC**
SEMICONDUCTOR
 - ✓ **ODM, OEM Design & Manufacturing**

COMPANY PROFILE



COMPANY PROFILE

- **Number of Employees: 18**
 - **R&D x 6**
 - **Sales x 6**
 - **Production x 2**
 - **QA & QC x 2**
 - **Finance x 1**
 - **Management x 1**

COMPANY PROFILE

- **Current Capacity for BLE Module:
Max. 300,000 units per month**
- **Yearly Sales Records:**
 - **2015 ~ 2017: over 2.5 millions**
 - **2018: 1.8 millions**
 - **2019: 1.8 millions**
 - **2020 Target: 2.5 millions**

MILESTONES

➤ 2004:

- ✓ Raytac founded
- ✓ Released “WiFi Detector” & “2.4Ghz Wireless Presenter”

➤ 2005:

- ✓ Exclusive contract with **3M Korea** and **Honeywell** for presenter business
- ✓ Win Taiwanese Innovation Award for small & medium enterprise

MILESTONES

➤ 2007:

- ✓ Expanded presenter business into Japan.
- ✓ Collaborated ODM project with leading hearing company in Denmark.

➤ 2012:

- ✓ Launched first BLE module (nRF51 series).
- ✓ Reorganized management, R&D and production team stays.

MILESTONES

- **2013 ~ 2016:**
 - ✓ Released BLE & 2.4Ghz RF solution (dual mode) for HID products in Japan.
 - ✓ Launched new nRF52 series module.
- **2017:**
 - ✓ Launched ultra compact MDBT42V module.
 - ✓ Established Laser & EC BU.

MILESTONES

➤ 2018:

- ✓ Launched nRF52840 module and BLE Dongle (MDBT50Q-RX).
- ✓ Released AT command FW solution for BLE modules.

MILESTONES

➤ 2019:

- ✓ Launched nRF52833 module
- ✓ Released AT command FW solution for BLE dongle.
- ✓ Introduced nRF52832 module with u.FL connector (MDBT42Q-U)

Product Introduction

- **WHY choosing Raytac?**
 - ✓ **Nordic recommended 3rd party**
 - ✓ **Stable performance and high-quality module**
 - ✓ **Wide coverage of certifications**
(SIG's BQB + 7 regional certificates)
 - ✓ **Compact size**
 - ✓ **Competitive price**

Product Introduction

Real-life size ($\pm 2\text{mm}$) under reading mode at 100% scale.

nRF51 Solution



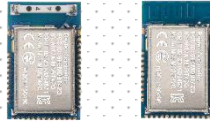
MDBT40



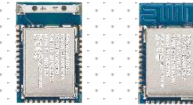
MDBT40-P

nRF52 Solution

nRF52832



MDBT42Q / -P / -U

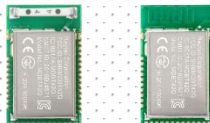


MDBT42 / -P



MDBT42V / -P

nRF52810



MDBT42Q / -P / -U



pin-to-pin compatible

Product Introduction

Real-life size ($\pm 2\text{mm}$) under reading mode at 100% scale.

nRF52 Solution

nRF52840



MDBT50Q-1M



MDBT50Q-P1M



MDBT50Q-U1M
(u.FL connector)



MDBT50Q-RX
(Dongle)

Product Introduction

Real-life size ($\pm 2\text{mm}$) under reading mode at 100% scale.

AT Command Solution (UART Interface)

**Slave /
Peripheral**



**MDBT42Q-AT / PAT
(nRF52810)**



**MDBT42V-AT / PAT
(nRF52832)**

Master / Central



**MDBT42Q-ATM / PATM
(nRF52832)**

Factory Tour

- **Tech-Lin's Electronics Corp.**
 - **Location: New Taipei City, Taiwan**
 - **Established since 1987**
 - **Employees: 140**
 - **Plant area: 4,600 m²**
 - **ISO 9001-2015 & ISO 14001-2015 Certified.**
 - **Main Customers: Asus, Garmin, D-link, Kingston**

Factory Tour

- **Inspection Facility**

Automated Optical Inspection, TR7500DT



BGA Rework, 936USB



X-Ray, Dage XD7500VR



Factory Tour

- **SMT Lines: 4**

High Speed Mounter, NXT III M6



N2 Reflow Oven BTU, 150Nz



Multi Purpose Mounter XPF-L



Stencil Printer EKRA S4000



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Thank you for attention!