seeed studio   Raspberry Pi
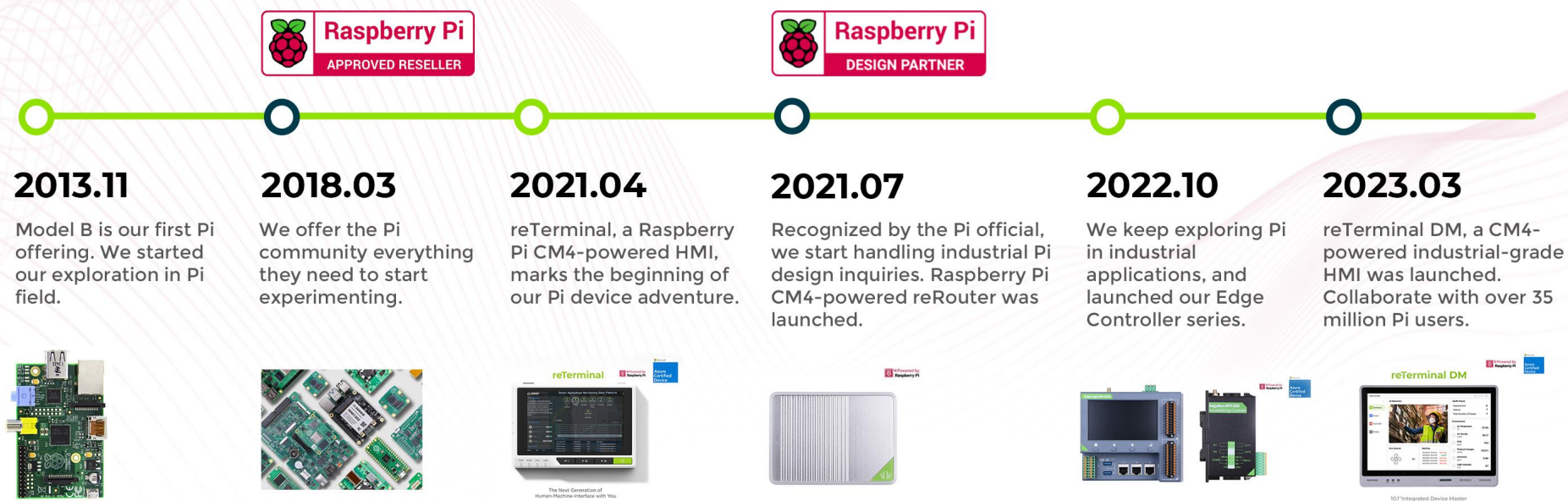
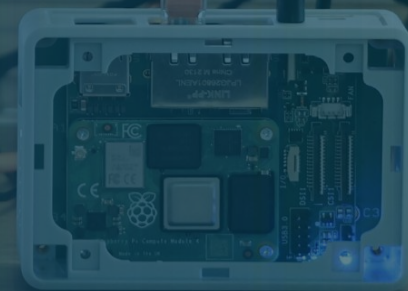# Seeed Studio * Raspberry Pi

June 2023

Table of Contents

Seeed Studio has been serving the Pi user community since 2013 and took the lead to join the approved reseller and design partner

Raspberry Pi APPROVED RESELLER

Raspberry Pi DESIGN PARTNER

2013.11
Model B is our first Pi offering. We started our exploration in Pi field.

2018.03
We offer the Pi community everything they need to start experimenting.

2021.04
reTerminal, a Raspberry Pi CM4-powered HMI, marks the beginning of our Pi device adventure.

2021.07
Recognized by the Pi official, we start handling industrial Pi design inquiries. Raspberry Pi CM4-powered reRouter was launched.

2022.10
We keep exploring Pi in industrial applications, and launched our Edge Controller series.

2023.03
reTerminal DM, a CM4-powered industrial-grade HMI was launched. Collaborate with over 35 million Pi users.

Seeed's Pi-based Standard Devices

Seeed's Raspberry Pi-powered Edge Devices

Assist the Most Prosperous and the Largest Edge Maker Community to Serve Diverse IIoT/AIoT Needs

Success Cases

reTerminal DM in Smart Building/Energy Management
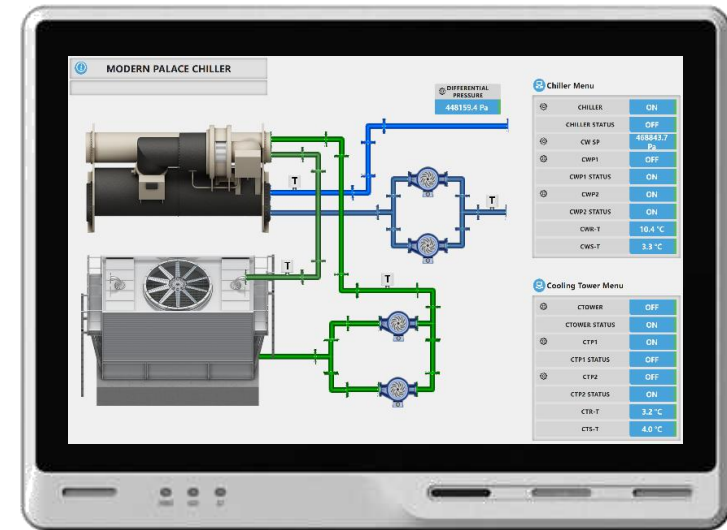
Industry: Smart Building

Product: reTerminal DM

Solution Introduction:
A system integrator specializing in smart buildings and IoT energy solutions over 15 years is deploying reTerminal DMs with their vertical software system in control room consoles for operator control, connect with external large-screen display.

Location: China

Demand: Thousands of units per year

HMI

Success Cases

reTerminal DM in Healthcare

Industry: Healthcare

Product: reTerminal DM

Solution Introduction:
A system integrator in healthcare is using reTerminal DM as the tablet for healthcare staff to handle various operations such as registration, login verification, testing, and view health testing results, as well as manage health data by scanning the QR code.

Location: China

Demand: 500~1k units per year

Panel PC

reTerminal DM in Smart Office/Access Control

Industry: Smart office/Access Control

Product: reTerminal DM

Solution Introduction:
A system integrator operates in the smart office industry over 20 years is using reTerminal DM for Biometric time and attendance record and access control at office. And in the next cooperation phase would integrate the fingerprint scanner and also touch keyboard there in reTerminal DM as the customization solution.

Location: Australia

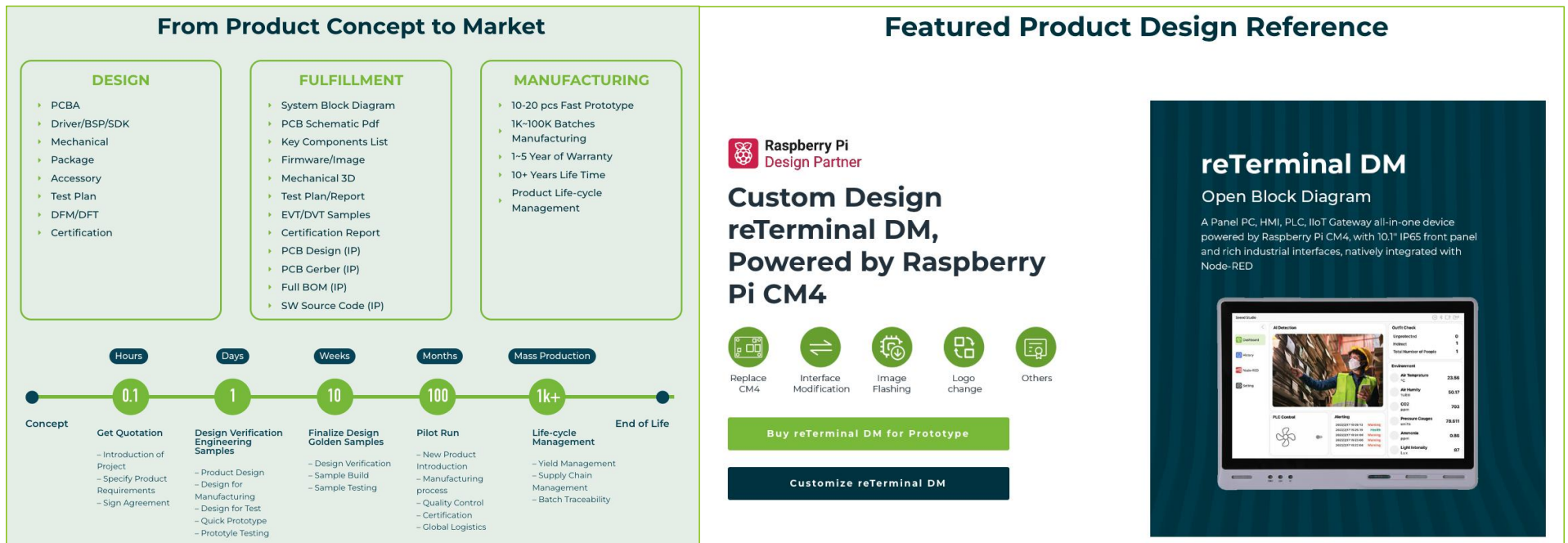**Demand:** 1k units per year

HMI

Seeed's Pi-based ODM Service

Seeed's ODM Services based Raspberry Pi-powered Devices

We are ready and have had successful experiences to bring product concept to market with our industrial capabilities from design, manufacturing, testing, certification, global distribution and marketplace.

From Product Concept to Market

DESIGN

- PCBA
- Driver/BSP/SDK
- Mechanical
- Package
- Accessory
- Test Plan
- DFM/DFT
- Certification

FULFILLMENT

- System Block Diagram
- PCB Schematic Pdf
- Key Components List
- Firmware/Image
- Mechanical 3D
- Test Plan/Report
- EVT/DVT Samples
- Certification Report
- PCB Design (IP)
- PCB Gerber (IP)
- Full BOM (IP)
- SW Source Code (IP)

MANUFACTURING

- 10-20 pcs Fast Prototype
- 1K~100K Batches Manufacturing
- 1~5 Year of Warranty
- 10+ Years Life Time
- Product Life-cycle Management

Hours	Days	Weeks	Months	Mass Production
0.1	1	10	100	1k+

Concept

Get Quotation
– Introduction of Project
– Specify Product Requirements
– Sign Agreement

Design Verification Engineering Samples
– Product Design
– Design for Manufacturing
– Design for Test
– Quick Prototype
– Prototyle Testing

Finalize Design Golden Samples
– Design Verification
– Sample Build
– Sample Testing

Pilot Run
– New Product Introduction
– Manufacturing process
– Quality Control
– Certification
– Global Logistics

Life-cycle Management
– Yield Management
– Supply Chain Management
– Batch Traceability

End of Life

Featured Product Design Reference

Raspberry Pi Design Partner

Custom Design reTerminal DM, Powered by Raspberry Pi CM4

- Replace CM4
- Interface Modification
- Image Flashing
- Logo change
- Others

Buy reTerminal DM for Prototype

Customize reTerminal DM

reTerminal DM

Open Block Diagram

A Panel PC, HMI, PLC, IIoT Gateway all-in-one device powered by Raspberry Pi CM4, with 10.1" IP65 front panel and rich industrial interfaces, natively integrated with Node-RED

[ODM SERVICE] reTerminal in Smart Packing

Industry: Smart Packing

Product: reTerminal

Solution Introduction:
Our client has been operating end–to–end packing systems at several large fruit packhouses in South Africa, customizing packaging and labeling semi–robots.
They have been using customized reTerminals as the smart labling HMI at large fruit packhouses.

Location: South Africa

Demand: 500~1k units per year

HMI

[ODM SERVICE] reTerminal in Water Management

Industry: Water Management

Product: reTerminal

Solution Introduction:
A system integrator in SCADA and automation solutions is using reTerminals as the HMI and embedded serve in Remote Terminal Unit (RTU) system for flood mitigation and pump control systems.

Location: Malaysia

Demand: 500~1k units per year

HMI, Gateway, Panel PC

[ODM SERVICE] reRouter in Security

Industry: Security

Product: reRouter

Solution Introduction:
A US-based company Patrolio deployed a reRouter-powered security solution together with its active deterrence IP Camera and security monitoring service, ensuring a more intelligent and responsive neighborhood.

Location: USA

Demand: 500~1k units per year

Processor Hub

More Explorations and Innovations

More Pi-based Co-create Partnerships

Creator: Flavio Ansovini – an enthusiast of electronics

Solution: Stunning Öchìn CM4 board based on Raspberry Pi CM4

Creator: Villmer – the founder of POP

Solution: DIY Portable 360˚ virtual reality camera based on Raspberry Pi CM4

More...

CONTACT US

HEADQUARTERS
9F, Building G3, TCL International E City, Zhongshanyuan Road, Nanshan, 518055, Shenzhen, PRC

X.FACTORY
Chaihuo x.factory 622, Design Commune, Vanke Cloud City, Dashi 2nd Road, 518055, Shenzhen, PRC

Japan Office
130 Honjingai 1F, Shin-Nagoya-Center Bldg. 1-1 Ibukacho Nakamura-ku, Nagoya-shi, Aichi 453-0012 Japan

LinkedIn
@Seeed Studio

Open Tech Project Hub
hackster.io/seeed

Twitter
@seeedstudio

Discord
Discord.seeed.cc

YouTube
@Seeed Studio