

Artemis

Automatic Route Trace & Eliminate Mistakes Intelligent System



1

- What is Artemis



2

- Advantage of Artemis



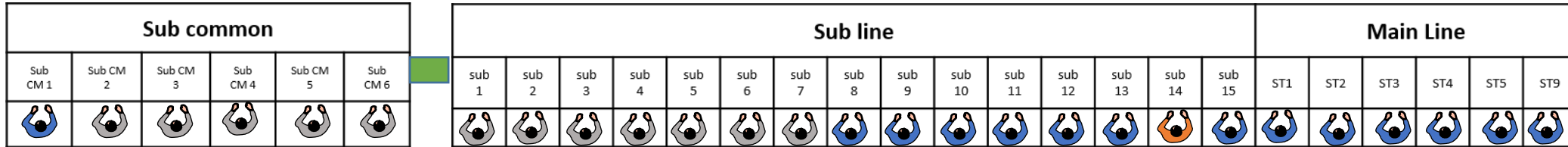
3

- Example application

1. What is Artemis

Background

- Apply **MMC**(Man-Machine-Cell) Or Outsource Supplier



Advantage:






















- Flexible adapt to production changes
- Light weight => Easy change layout
- Inexpensive, suitable for high mix, low volume production

Disadvantage:

- Production tactime is difficult to understand because it depends on humans
- Risk of skipping the process due to manual intervention
- Difficult to verify data later because things and devices are not linked.

1. Overview

Background

Sub line															Main Line					
sub 1	sub 2	sub 3	sub 4	sub 5	sub 6	sub 7	sub 8	sub 9	sub 10	sub 11	sub 12	sub 13	sub 14	sub 15	ST1	ST2	ST3	ST4	ST5	ST9
																				

How Artemis work

Scan QR code of assembled part, unit



Confirm previous station



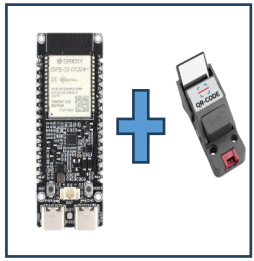
OK

Warning of OP skip check skip assemble



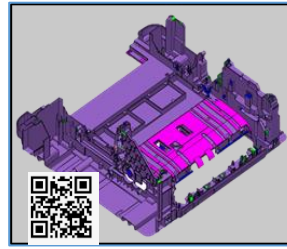
OK

Finish



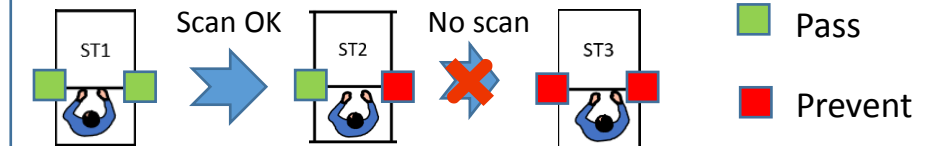
Artemis

Scan QR Code



Send data

Display



- Auto record tactime every step
=> **Improve operation**
- Prevent skip step by cooperate with PLC
=> **Prevent OP mistakes**
- Auto store all history info
=> **Improve quality**

1. Overview

Equipment

QR Code Scanner Unit



- Scan QR code quickly, exactly
- Switch mode easy
- Compact design

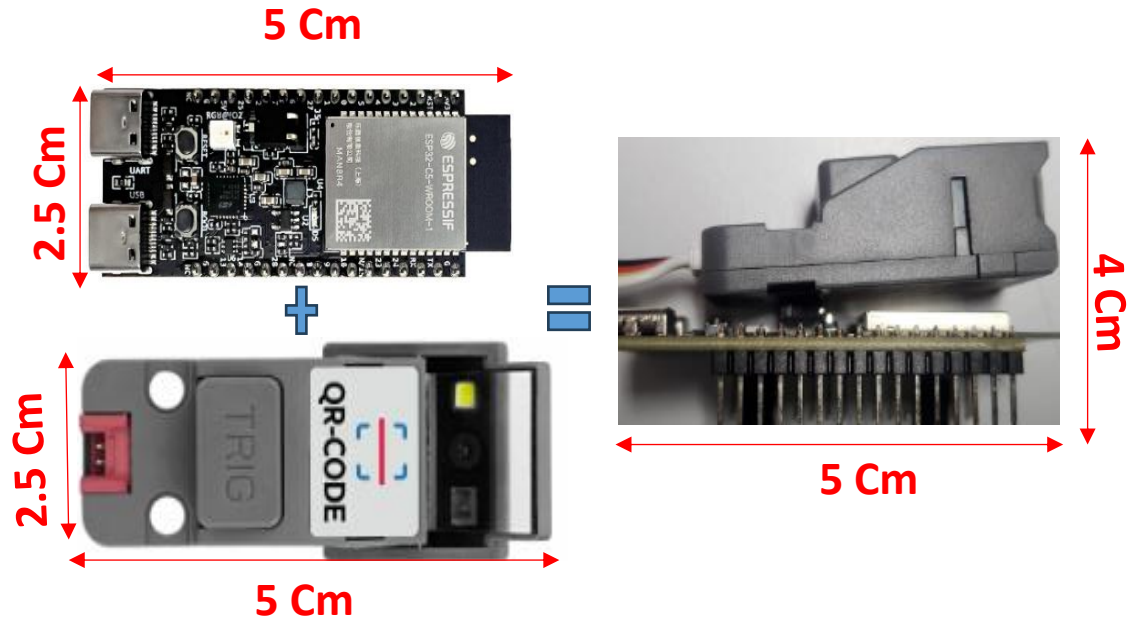
ESP32-C5 (Processor)



- Connect WiFi 5Ghz
- Can work with PLC
- Small & reasonable price

2. Advantage of Artemis

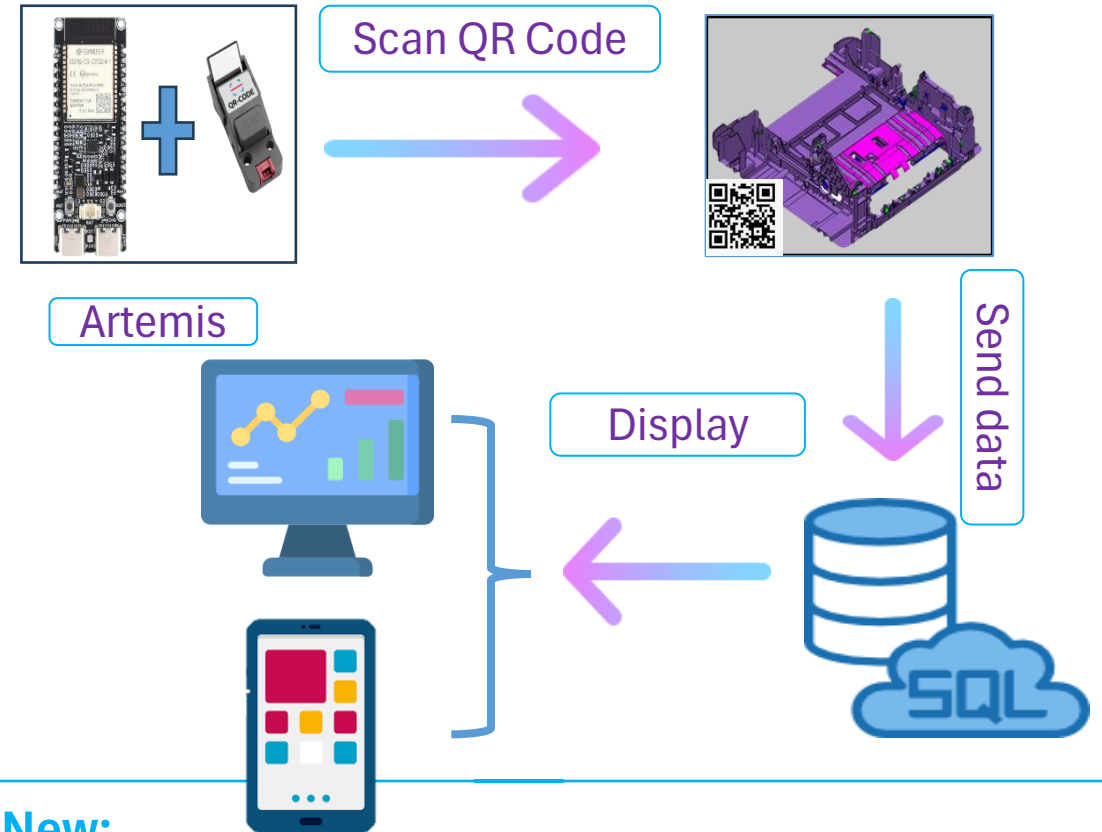
Advantage



Advantage:

- Still retains all the normal functions of a QR Code scanner
- More compact size than conventional QR code scanners
- Easy to install and no third party software required

➔ In addition to the above improvements, Artemis is fully automatic.



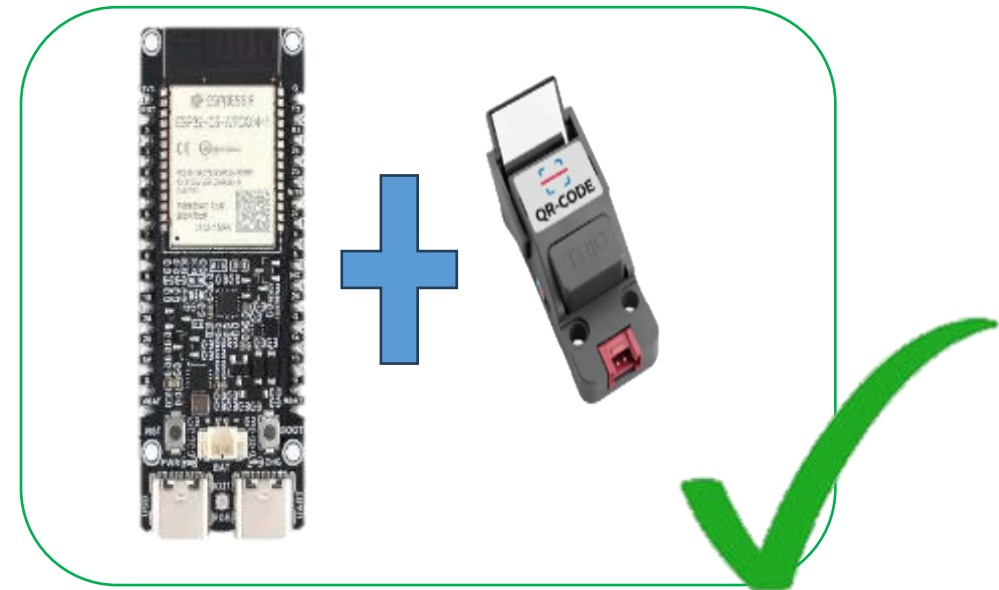
New:

- Auto record tactime every step
 - Prevent skip step by cooperate with PLC
 - Auto store all history info
- ➔ Not only save time & money but also reduce risk

2. Example application

Introduce about Artemis

Artemis : a system to scan QR code of parts to prevent missing assembly part

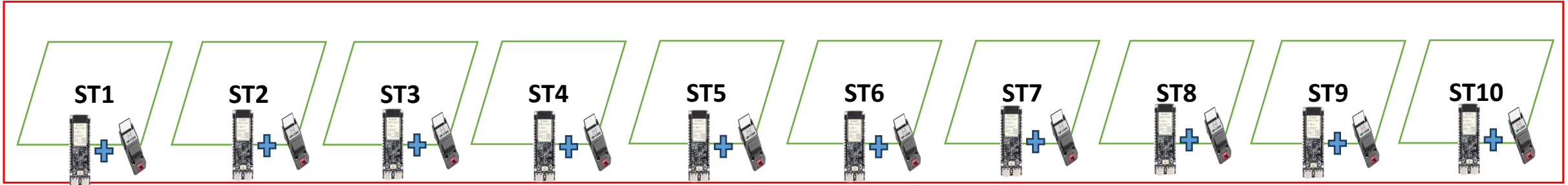


2. Example application

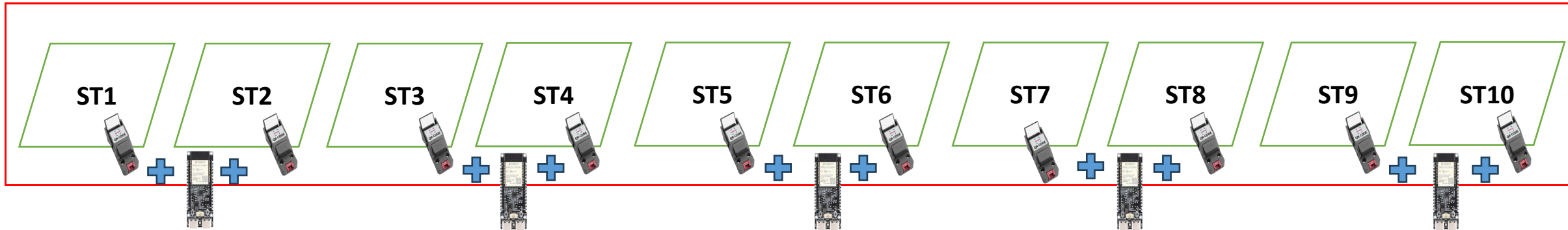
Introduce about Artemis

Artemis : a system to scan QR code of parts to prevent missing assembly part

Design 1:

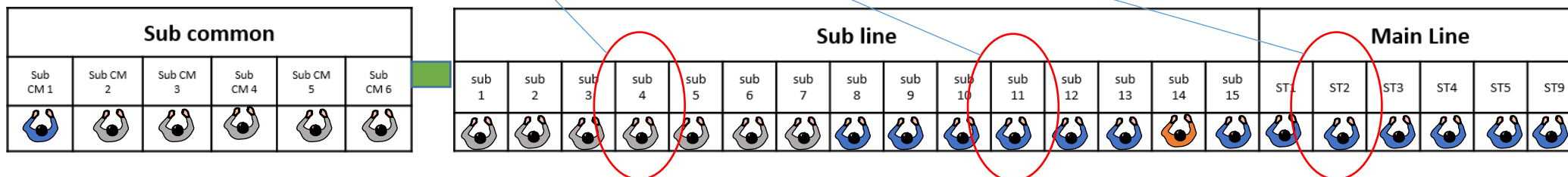
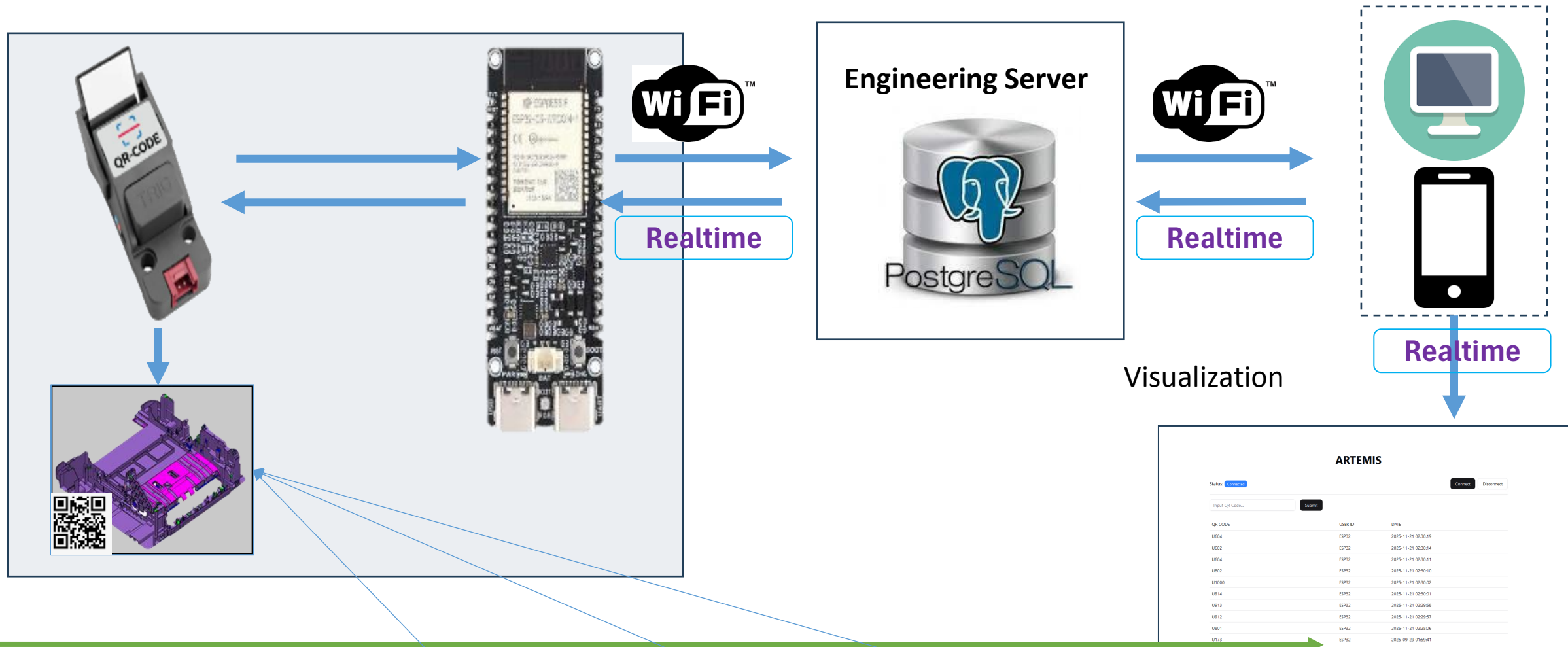


Design 2:



3. Result

Demo Configuration



3. Result

ARTEMIS

Status: Connected

Connect

Disconnect

Input QR Code...

Submit

QR CODE	Result of scan	USER ID	DATE	Time of scan
U604		ESP32	2025-11-21 02:30:19	
U602		ESP32	2025-11-21 02:30:14	
U604		ESP32	2025-11-21 02:30:11	
U802		ESP32	2025-11-21 02:30:10	
U1000		ESP32	2025-11-21 02:30:02	
U914	Location of Artemis	ESP32	2025-11-21 02:30:01	
U913		ESP32	2025-11-21 02:29:58	
U912		ESP32	2025-11-21 02:29:57	
U801		ESP32	2025-11-21 02:25:06	
U172		ESP32	2025-09-29 01:59:41	

**THANK YOU FOR YOUR
ATTENTION!**



1 LINE = $(\$57 + \$89)$



1 Station

*

10

=

\$1460