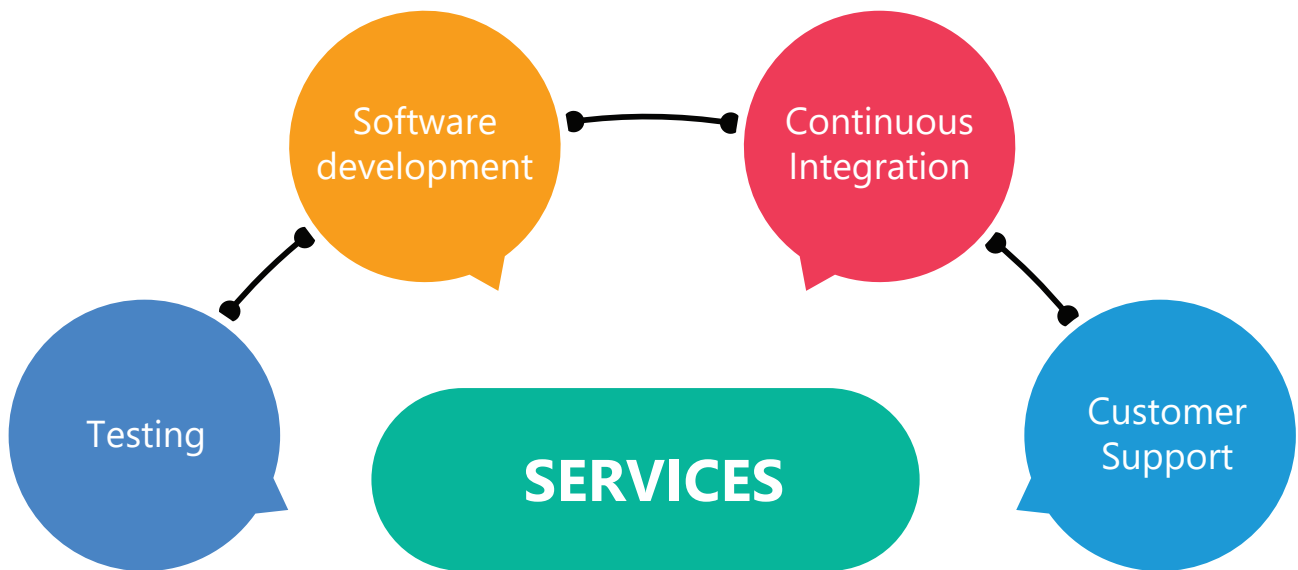
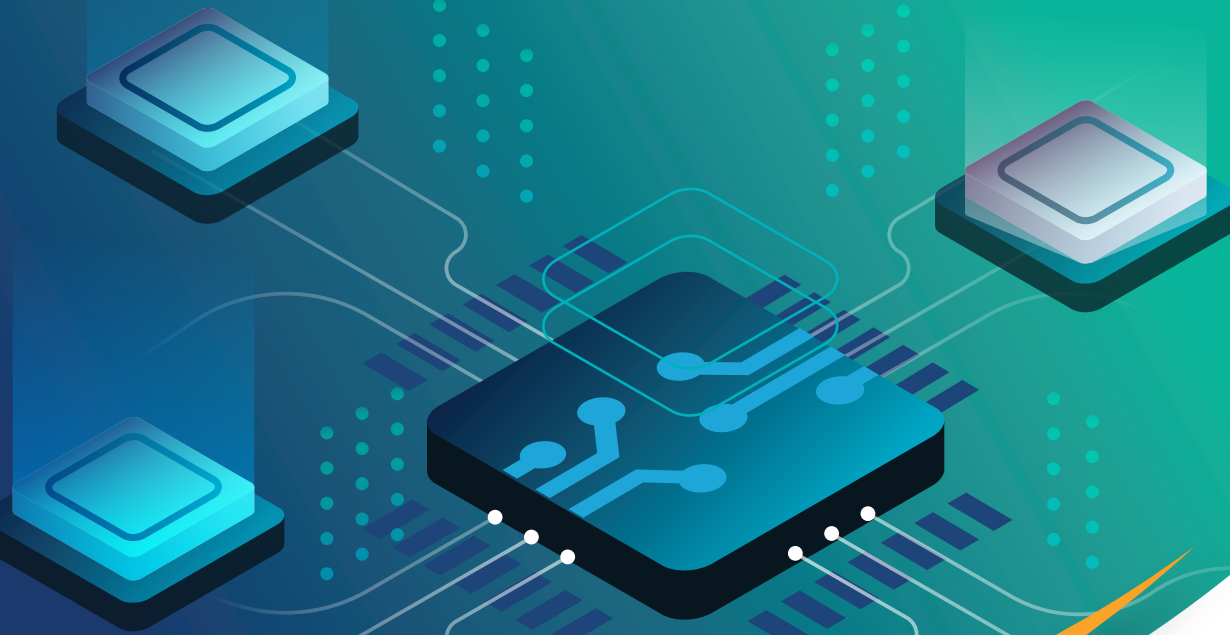


Embedded Service Package



TESTING

Services



Softwares testing: AT and linux based

Cellular Modules and Modems for industry, automotive, high-speed solutions...

Short Range and Positioning modules:
wifi, bluetooth, location service...

Network and cloud services



Factory cooperation testing

- DBI testing



Tool testing

- Easy interactive environment for users to build linux based apps

Technologies

2G/3G/4G/5G

Cloud IOT platforms

Linux

Electronics PCB design

LWPA

Framework

Python-based framework

C-based framework

Linux Bash Shell framework

Programming

C/C++, python, Java,
Linux Bash Shell

SOFTWARE DEVELOPMENT

Services



FW development



Application development

AT & linux-based OS

Technologies

Posix thread,
Sandbox, RPC

Yocto, freeRTOS,
ThreadX

LWM2M, COAP,
DCS (Develop Cloud Services),
Firmware Over-The-Air (FOTA),
Software-over-the-air (SOTA)

Programming

C/C++, Python

CI

Services



Setup CI system based on Jenkins and Gerrit



Design and Implement CI/CD processes for embedded software & firmware development



Develop features for CI system (such as collaboration tool integration)

Technologies

Gerrit web-based code review tool,
Google git-repo multiple git repository tool

Jenkins

SonarQube
& Klocwork

Azure cloud, Ubuntu, CoreOS,
Docker containers

Collaboration Tools:
JIRA, Confluence

Programming

Groovy, Bash Shell, Ruby, Python

CUSTOMER SUPPORT

Services



Technical support: AT and linux based

- Cellular Modules and Modems for industry, automotive, high-speed solutions....
- Short Range and Positioning modules: wifi, bluetooth, location service...
- Network and cloud services



Onsite deployment, remote maintenance and troubleshooting

Technologies

Cloud IOT platforms:
AWS EC1, Microsoft Azure

VMWare
vSphere

LWPA

Network protocol: Mobile 3GPP,
VLAN, VPN, DHCP, SNMP, LDAP,
RADIUS, TACACS+

Programming

C/C++, python, Lua, JavaScript

SAMPLE APPLICATIONS

▶ LAB MONITORING SYSTEM

Features

- Monitor lab rooms 24/7, measure necessary parameters: temperature, humidity, light intensity, air pressure...
- Send alarm automatically when there is an indicator: high temperature....
- Remotely control and view via camera.
- Predict the time that an accident may happen using ML and AI.
- Raise alarms when stranger attack is detected
- Support controlling and monitoring using mobiles (android and iOS)



Technologies

AirPrime modules of Sierra Wireless

Raspberry Pi

Bluetooth sensors

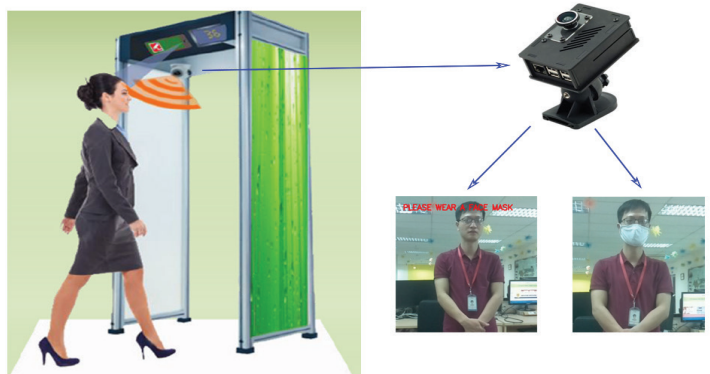
Sierra Wireless's cloud

Android and iOS

▶ UNMASK DETECTION

Features

- Detect people without face masks using AI and Computer Vision
- Remind people without face masks using speakers and lights
- Store pictures in cloud
- Support wifi, bluetooth and ethernet
- Quickly deploy without any installation



Technologies

Raspberry Pi

Android

TMA cloud