

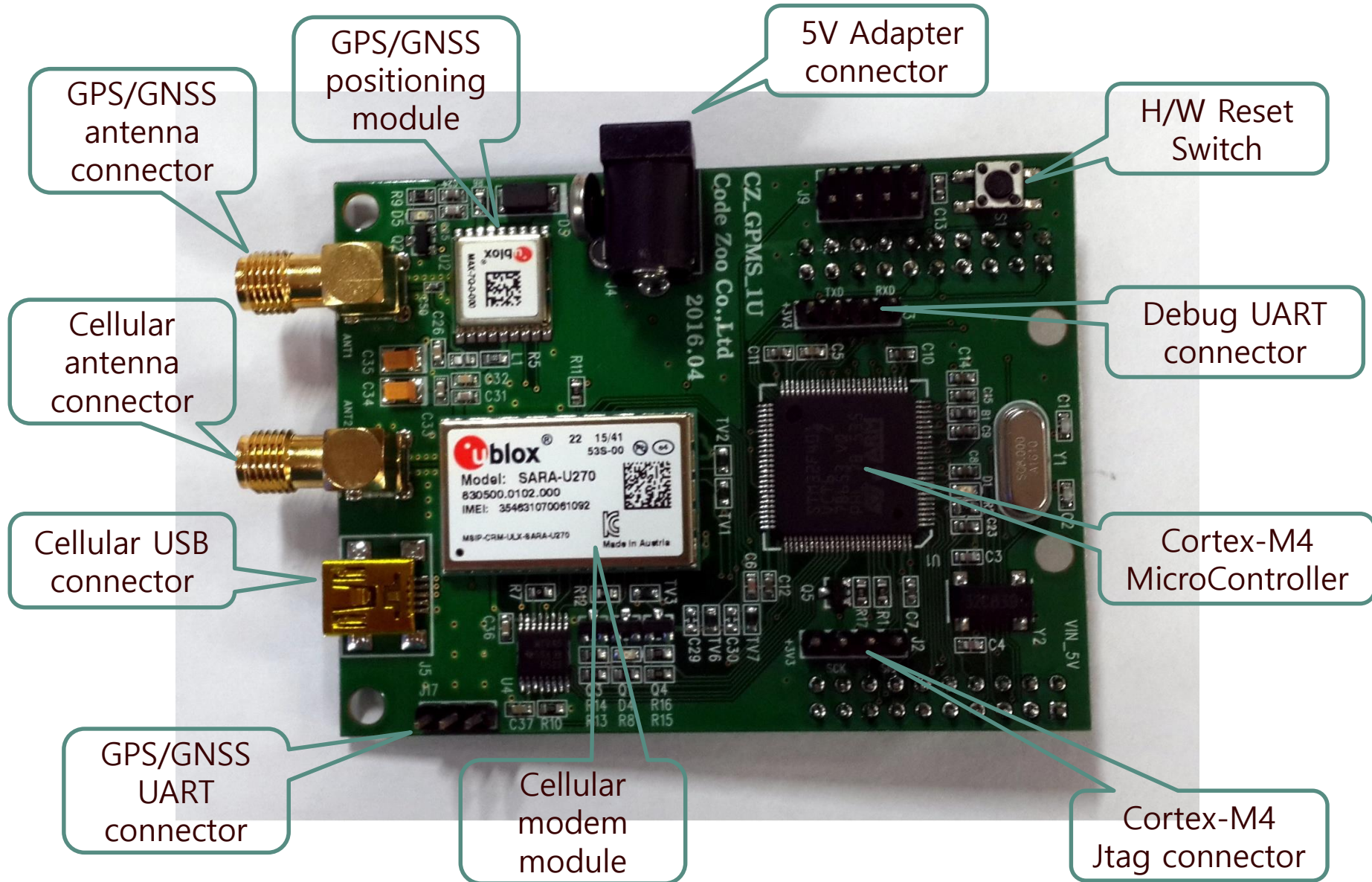


CZ_GPMS_1U

Cellular&Positioning Board

주식회사 코드주

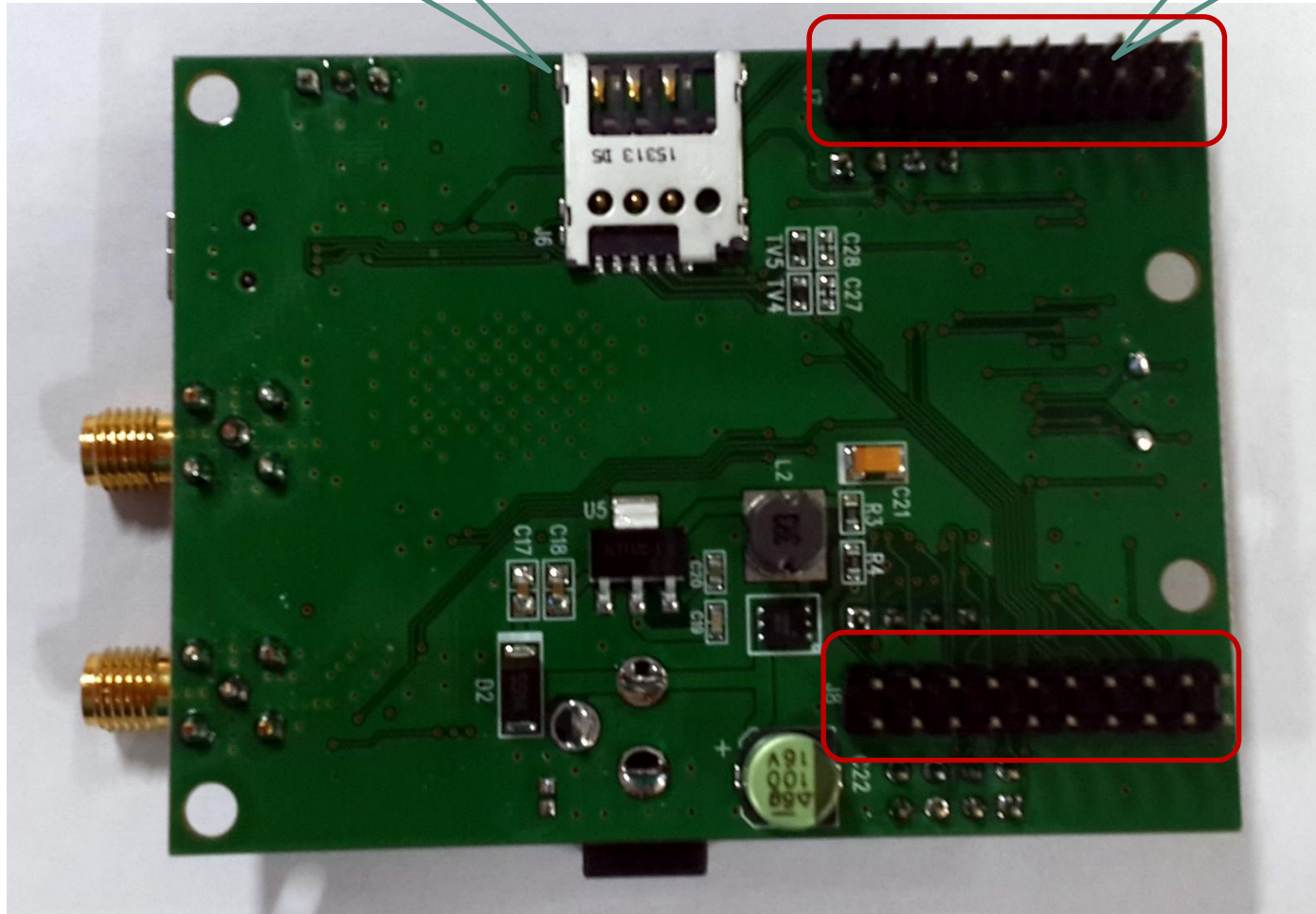
CZ_GPMS_1U Design Front



CZ_GPMS_1U Design Back

SIM card connector

Extend connector pads



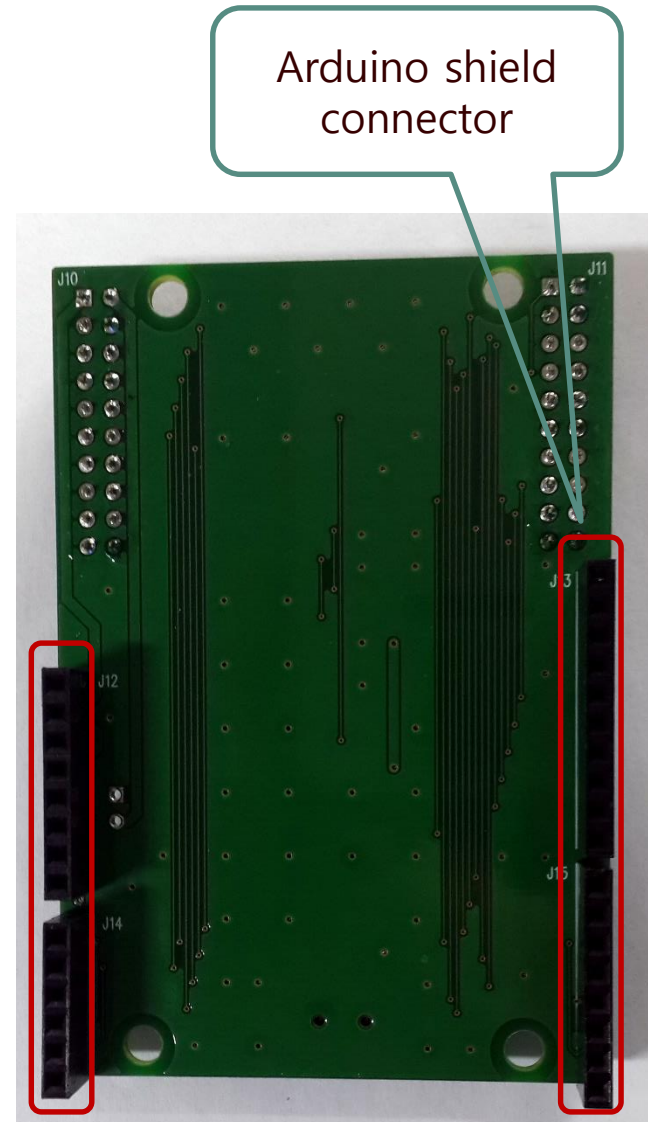
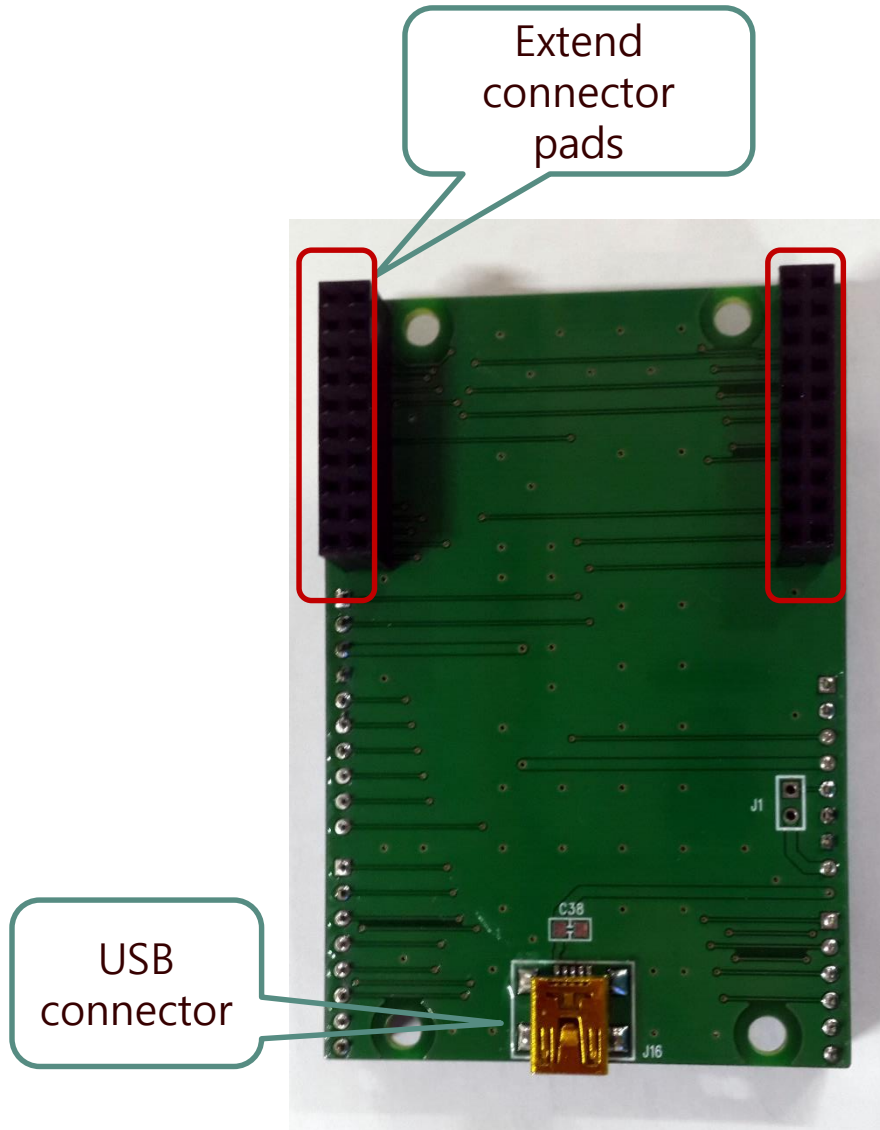
CZ_GPMS_1U Antennas



GPS/Glonass
Antenna

Cellular
Antenna

CZ_GPMS_1U Arduino shield adapter



CZ_GPMS_1U Spec-1

- **MCU (STM32F401VE)**
 - ✓ 32-bit Cortex-M4 CPU(84MHz) with FPU
 - ✓ 512Kbytes Flash, 96Kbytes SRAM, MPU
 - ✓ DSP instructions
- **Cellular modem (SARA-U270)**
 - ✓ UMTS/HSPA: 850/1900 and 900/2100 MHz
 - ✓ GSM: GSM 850/1900 and 900/1800 MHz
 - ✓ GPRS: Class 12, CS1-CS4, up to 86.5 kb/s
 - ✓ EDGE: Class 12, MCS1-9, up to 236.8 kb/s
 - ✓ SMS: MT/MO PDU / Text mode

CZ_GPMS_1U Spec-2

■ GPS/GNSS (MAX-7Q)

✓ Receiver type: GPS/QZSS L1 C/A, GLONASS L1 FDMA,

SBAS: WAAS, EGNOS, MSAS

✓ Supported antennas: Active

■ Antennas

✓ Cellular: Frequency 850~900/~1800~1900~2100MHZ

Bandwidth(MHz) 70/280

✓ GPS/GNSS: Frequency 1575.42 ± 2 MHZ/ 1602 ± 2 MHZ

Bandwidth(MHz) 4

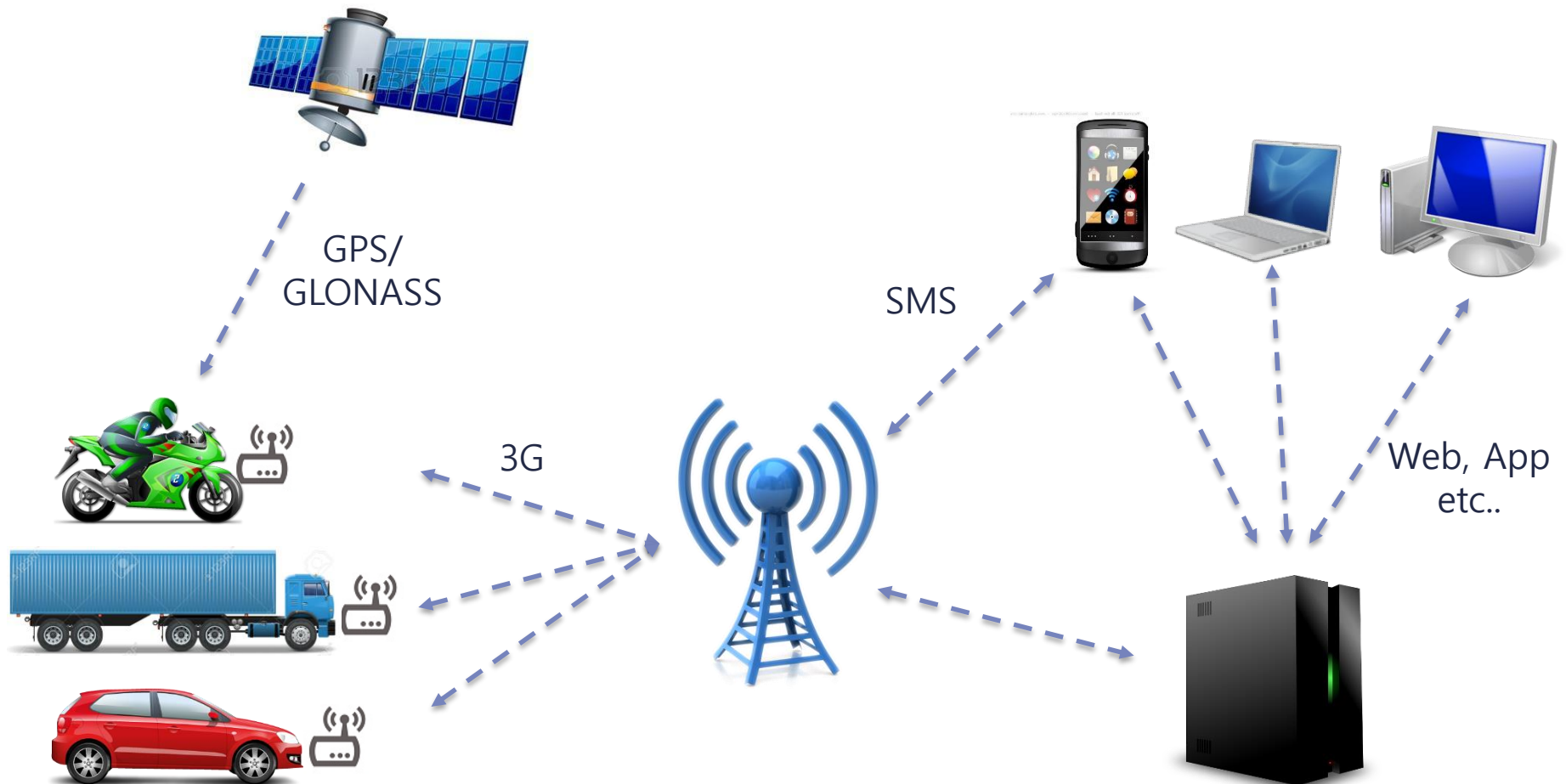
Active

CZ_GPMS_1U Spec-3

- **Extend pads**
 - ✓ 8xGPIO, 8xADC, 8xPWM, 1xUART, 2xSPI, 2xI2C, 5V 3.3V OUT, 5V IN
- **Power**
 - ✓ 5V, 300mA ~ 5A
- **Body**
 - ✓ 73 x 56 x 17

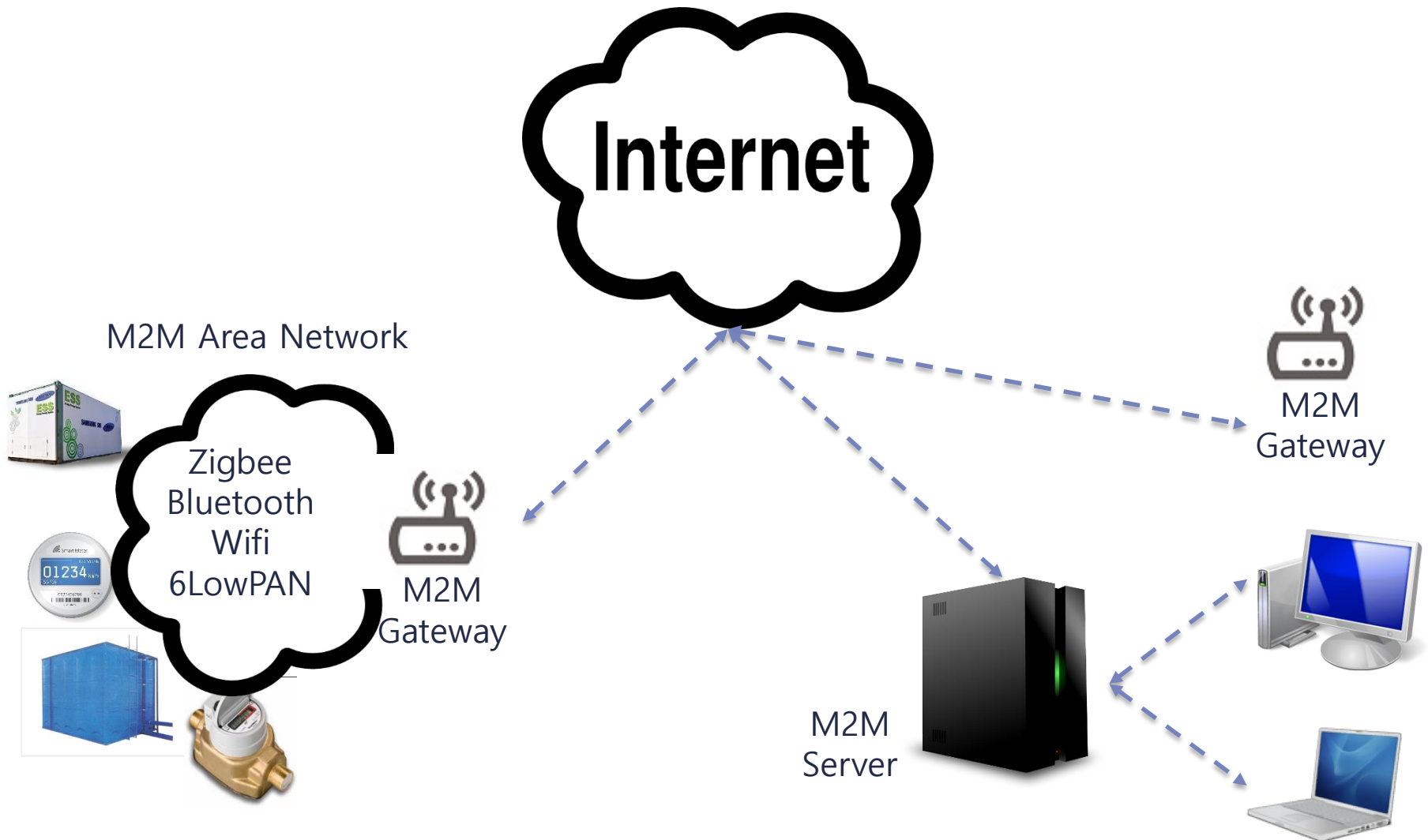
CZ_GPMS_1U Use case 1

- Tracking system (Vehicle, Trailer, Cargo etc.)



CZ_GPMS_1U Use case 2

- 소형 M2M Gateway



CZ_GPMS_1U Use case 3

■ IoT Sensor Hub (Arduino shield 호환)

