# TECHNOLOGY SOLUTIONS UK LTD
part of HID



IMPINJ CONNECTED

RAIN RFID

# TSL® UHF RFID Reader Modules - Purchasing Options

## Initial Purchase - Developer Kit

Customers should initially buy a Developer Kit as a single, one-off purchase. Thereafter, the required number of RFID modules can be purchased separately.

Each developer kit is bundled with a choice of one of the Standard Mount modules (see Modules section below), plus all of the accessories required to start developing and testing custom RFID solutions.

Developer Kit contents:



RAIN Development Board
including module

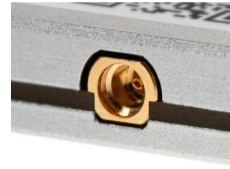UHF Antenna (FCC or ETSI)
and antenna cable

Power Supply

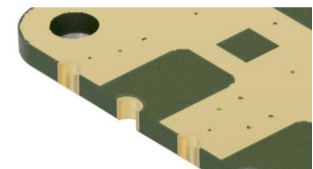USB-C and USB FTDI Cables

Developer Kit SKUs:

| Bundled Module | ETSI/RED version | FCC version |
|---|---|---|
| 3117-01 | 3117-DEV-KIT-ETSI-01 | 3117-DEV-KIT-FCC-01 |
| 3417-01 | 3417-DEV-KIT-ETSI-01 | 3417-DEV-KIT-FCC-01 |
| 3419-01 | 3419-DEV-KIT-ETSI-01 | 3419-DEV-KIT-FCC-01 |

## Module Options

### Antenna Connection:



MMCX Ports

Castellated edges

### Impinj Chipsets:



**E710**
Read rates of ≥ 1200 tags/s
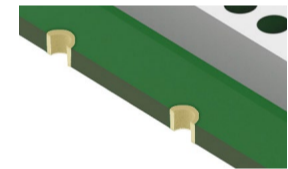Up to **-88 dBm** receive sensitivity

**E910**
Read rates of ≥ 1200 tags/s
Up to **-92 dBm** receive sensitivity

### Mounting System:



**M2 Pre-threaded holes**
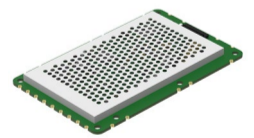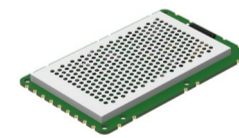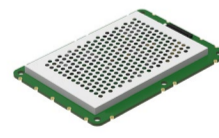3x M2 on 3117-01
4x M2 on 3417-01 and 3419-01

**Board Mount**
(Module must be soldered direct to PCB surface)

## Modules

| | Standard Mount modules | | | Board Mount modules (Require Soldering) | | |
|---|---|---|---|---|---|---|
| **SKU:** | **3117-01** | **3417-01** | **3419-01** | **3117-BM-01** | **3417-BM-01** | **3419-BM-01** |
| **Antenna Connection:** | 1x MMCX port | 4x MMCX ports | 4x MMCX ports | 1x Solder Pad | 4x Solder Pads | 4x Solder Pads |
| **Impinj Chipset:** | E710 | E710 | E910 | E710 | E710 | E910 |
| **Receive Sensitivity:** | up to -88 dBm | up to -88 dBm | up to -92 dBm | up to -88 dBm | up to -88 dBm | up to -92 dBm |
| **Mounting System:** | Standard (3x M2 pre-threaded holes) | Standard (4x M2 pre-threaded holes) | Standard (4x M2 pre-threaded holes) | Board Mount (solder direct to PCB) | Board Mount (solder direct to PCB) | Board Mount (solder direct to PCB) |
| **Dimensions:** | 60 x 42 x 6.7 mm | 68 x 42 x 6.7 mm | 68 x 42 x 6.7 mm | TBC | TBC | TBC |

IMPINJ CONNECTED

RAIN RFID

Image shown for illustration purposes only - product is still in development and subject to change