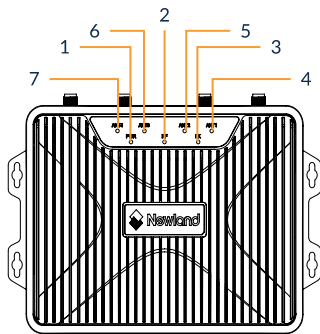
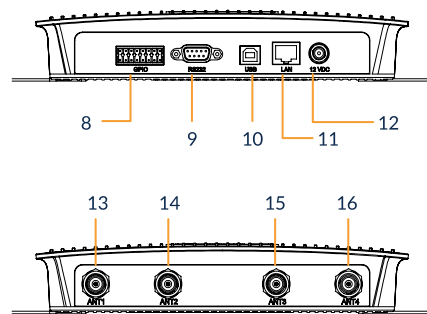




- | | | | |
|---|-------------------------------|---|--------------------|
| 1 | Power Indicator Light | 2 | RF Indicator Light |
| 3 | Communication Indicator Light | | |
| 4 | Antenna Indicator Light #1 | | |
| 5 | Antenna Indicator Light #2 | | |
| 6 | Antenna Indicator Light #3 | | |
| 7 | Antenna Indicator Light #4 | | |

1

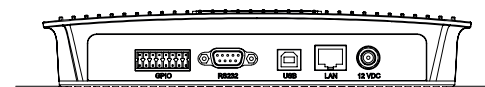


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|----|-------------------------|----|--------------------|
| 8 | GPIO Interface | 9 | RS232 Interface |
| 10 | USB Interface | 11 | Ethernet Interface |
| 12 | Power Port (DC Voltage) | 13 | Antenna Port #1 |
| 14 | Antenna Port #2 | 15 | Antenna Port #3 |
| 16 | Antenna Port #4 | | |

2

Connecting through a host (PC):

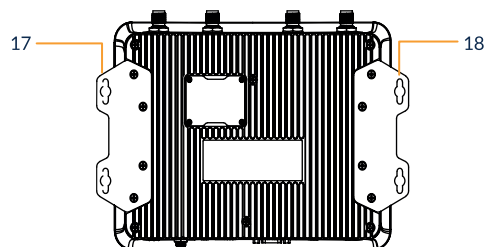
- Step 1:** USB Communication: Establish direct communication with the host using the device's USB port.
- Step 2:** Serial Communication: Communicate with the host using the device's RS232 port or RS485 extended via GPIO.
- Step 3:** Ethernet Communication: Establish direct communication with the host using the device's RJ45 Ethernet port.



5

Visit the Newland AIDC EMEA website at <https://www.newland-id.com> to download the URF520 Solea User Guide.

6



- | | | | |
|----|---------------|----|---------------|
| 17 | Fixed Bracket | 18 | Fixed Bracket |
|----|---------------|----|---------------|



This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

- Take the NLS-URF520, fixed brackets, and screws out of the packaging box.
- Place the NLS-URF520 with its back facing upwards on a flat surface.
- Secure the left and right brackets to the back of the NLS-URF520 using screws.

Note: If you do not need to use the brackets, you can skip step 3. Connect one end of the feeder line to the antenna and the other end to the device's antenna port (ANT1, ANT2, ANT3, or ANT4).
- To establish data communication between the device and the host (PC), follow these steps:
 - For USB communication, use a USB cable to connect the Type-A port to the host (PC) and the Type-B port to the device's USB port.
 - For serial communication (RS232), use a serial data cable to connect the RS232 data port to the device and connect the other end's Type-A port to the host (PC).
 - For Ethernet communication, simply connect one end of the Ethernet cable to the host (PC) and the other end to the device.
- When the device is powered on and successfully boots up, the device's buzzer will emit a power-on success sound, and the LED power indicator (PWR) will be on red.

Note: USB communication is recommended for informal applications like testing and debugging due to its simplicity and efficiency. However, for long-term device operation, it is advisable to use serial or Ethernet communication to ensure the device's stability.



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[newland-id.com](https://www.newland-id.com)



URF520
SOLEA

