# INP3000 Programmer Board

## VERSION 2.1

A picture containing text, electronics

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Figure 6: INP3000 programmer board – version 2.1

Table 8 provides the description of each jumper:

|  |  |
| --- | --- |
| **Jumper** | **Description** |
| J1 | Enable 3.3V supply |
| J2 | Select between 2.5V and 3.3V |
| J3 | GPIO headers |
| J6 | JTAG header |
| J7 | UART/SPI programming interface selector |
| J8 | GPIO headers |
| J10 | Enable 3.3V on programming header |
| J11 | Programming header |

Table 8: INP3000 jumpers with description

When programming a Talaria TWO module on an INP1014, they can be connected using a 20-pin ribbon cable as shown in Figure 7.

A close-up of a circuit board

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Figure 7: INP3000 programmer board with Talaria TWO module

### Connecting via UART interface

Graphical user interface, text, application, chat or text message

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Figure 8: UART connection diagram

Figure 8 is the connection diagram showing the connection of INP3000 programmer board to a Talaria TWO module via UART. Table 9 provides the description of each connection:

|  |  |
| --- | --- |
| **Connection** | **Description** |
| GPIO01 | UART TX |
| GPIO02 | UART RX |
| EN\_CHIP | Used for resetting the Talaria TWO module |
| GPIO17 | Talaria TWO console debug output (default baud is 2457600) |

Table 9: UART Connection & Description

To use UART, ensure that the J7 jumpers are configured as shown in Figure 9.

A picture containing text, electronics, circuit

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Figure 9: INP3000 programmer board version 2.1 - UART jumper setting

Once connected as shown in Figure 8 and Figure 9, Talaria TWO module can be programmed via the factory loader script or the Talaria TWO download tool.

For more information on the factory loader, refer: UG\_Factory\_Loader.pdf.

### Connecting via SPI interface

Graphical user interface, text, application, chat or text message

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Figure 10: SPI connection diagram

Figure 10 is the connection diagram showing the connection of INP3000 programmer board to a Talaria TWO module via SPI. Table 10 provides the description for each connection:

|  |  |
| --- | --- |
| **Connection** | **Description** |
| GPIO01 | MOSI |
| GPIO02 | MISO |
| GPIO00 | SCLK |
| GPIO05 | CS |
| EN\_CHIP | Used for resetting Talaria TWO module |
| GPIO17 | Talaria TWO console debug output (default baud is 2457600) |

Table 10: SPI Connection & Description

To use SPI, ensure that the J7 jumpers are as shown in Figure 11.

A model of a building

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Figure 11: INP3000 programmer board version 2.1 - SPI jumper setting