

Evaluation Kit of NJR4265

Evaluation Kit

Approaching
Not detect
Leaving



USB cable

Module

Evaluation Board

Translating
UART to USB

USB Output



Instructions (1)

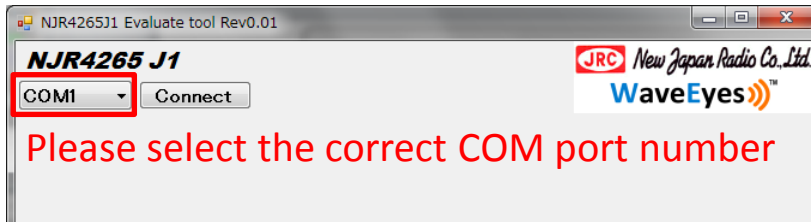
Installation of Application Software and Driver

1. Please check to install the ".Net Framework 4.0" or upgrade version in your PC. If it does not have it, please download it from Microsoft's following URL and install the ".Net Framework" to your PC.
<http://www.microsoft.com/en-US/download/details.aspx?id=17851>
2. Please run the enclosed driver file for windows PC and install the USB driver to your PC. In case of 32 bit windows the driver file should be "CP210xVCPInstaller_x86.exe" and in case of 64 bit windows the driver file should be "CP210xVCPInstaller_x64.exe".
If you can not complete to install, please do item 2.1 - 2.5.
 - 2.1. Please open the "Device Manager" in your PC and connect the NJR4265 evaluation board with USB cable.
 - 2.2. If not complete to install, the device manager will show an unknown device when connect the evaluation board.
 - 2.3. Please open the properties of the unknown device and select the button of "driver install"
 - 2.4. Please select a directory of the driver folder and the driver will be installed
 - 2.5. If the driver installation is finished completely, the "Silicon LabsCP210x USB to UART Bridge (COMxx)" will be shown in a "Port (COM and LPT)" session of the device manager.
If the driver installation is not finished completely, please restart Window OS with connection of the NJR4265 evaluation board on your PC and retry to do item 2.1 - 2.5.
3. Please run the enclosed file of the GUI application software: "NJR4265J1-EP001-0.0.1E.exe"

Instructions (2)

GUI Application Software

1. Please run the enclosed file of the GUI application software: “NJR4265J1-EP001-0.0.1E.exe”.
2. Please select the correct COM port number in pull down menu, click the “connect” bottom, and then the GUI will connect the evaluation board.
The correct COM port number can be check by the “Silicon LabsCP210x USB to UART Bridge (COMxx)” in a “Port (COM and LPT)” session of the device manager.



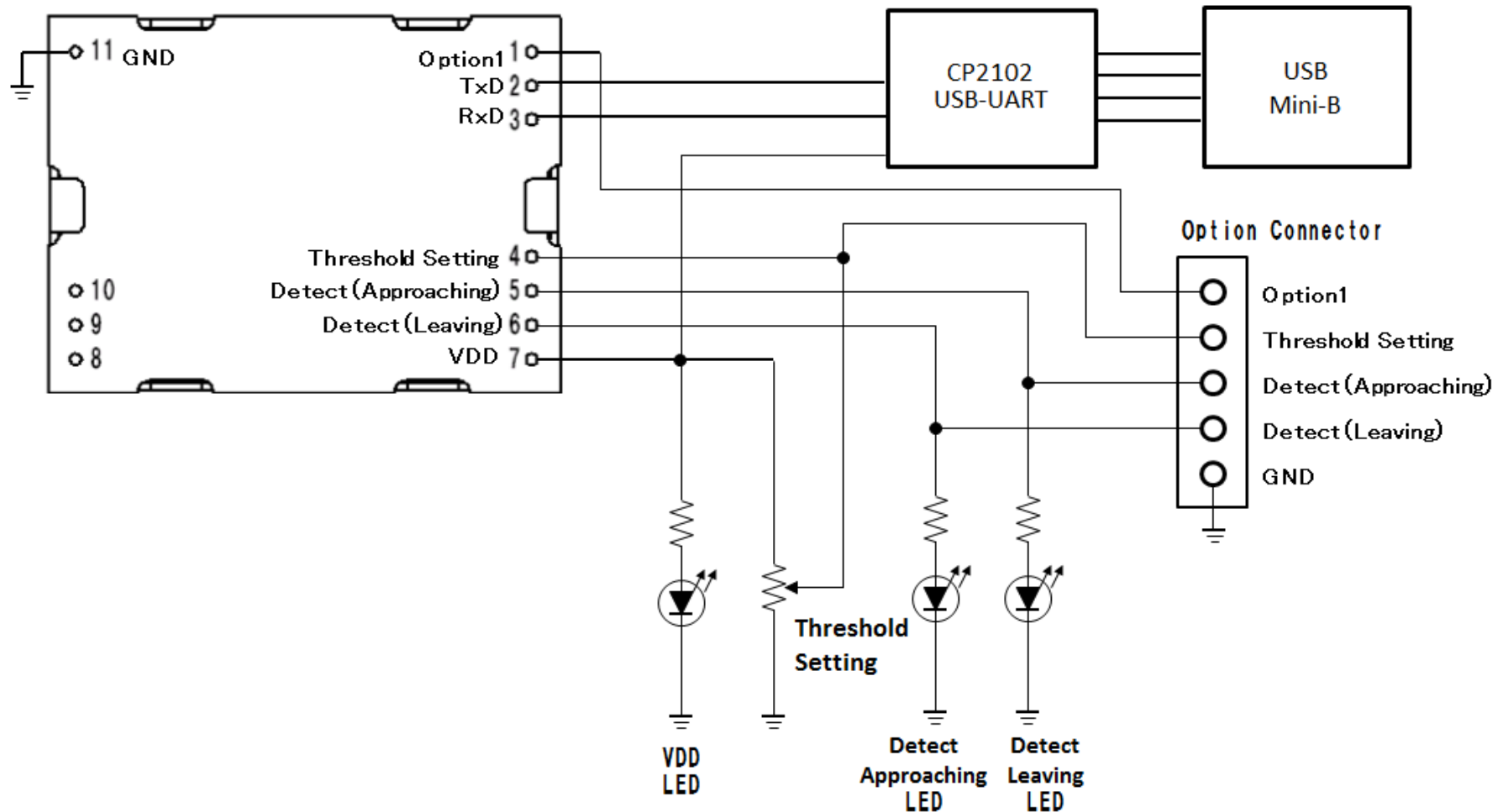
The screenshot displays the NJR4265 J1 software interface. At the top, the title bar reads 'NJR4265 J1 Evaluate tool Rev0.01'. The top right corner features the 'WaveEyes' logo and buttons for 'Save log (Detect result only)' and 'Save log (All commands)'. The left control panel includes a 'COM1' dropdown and a 'Disconnect' button. Below these are two threshold settings, both set to '501 cm'. The central 'Detect result' graph shows a blue line representing the detection status over a 10-second period. The y-axis has three levels: 'Approaching', 'No detect', and 'Leaving'. The graph shows the signal moving from 'No detect' to 'Approaching' at approximately 2.0s, staying there until 2.5s, then moving to 'Leaving' until 3.0s. It then returns to 'Approaching' at 3.0s, stays there until 3.5s, moves to 'Leaving' until 3.8s, returns to 'Approaching' at 3.8s, stays there until 4.2s, moves to 'Leaving' until 4.5s, and finally returns to 'No detect' at 4.5s. The right panel shows a 'Log file name' field and a table of commands sent and received. The bottom control panel includes a 'TimeScale' dropdown set to '10 sec', a 'Send command' button, and a complex set of buttons for 'Query', 'Detect status', 'Approach', 'Leave', 'Mode setting', 'Switch Analog/Command mode', 'Analogue', 'Command', 'Mode', 'Analyst', 'AD value', 'Wake/Sleep mode', 'Setting', 'Query', 'Wake', 'Sleep', 'Query', and 'Wake'. Red annotations are present: 'No.1' points to the 'No detect' label in the graph title; 'No.2' points to the 'Approaching' label on the y-axis; 'No.3' points to the 'Leaving' label on the y-axis; 'No.4' points to the graph area; and 'No.5' points to the bottom control panel.

No.5

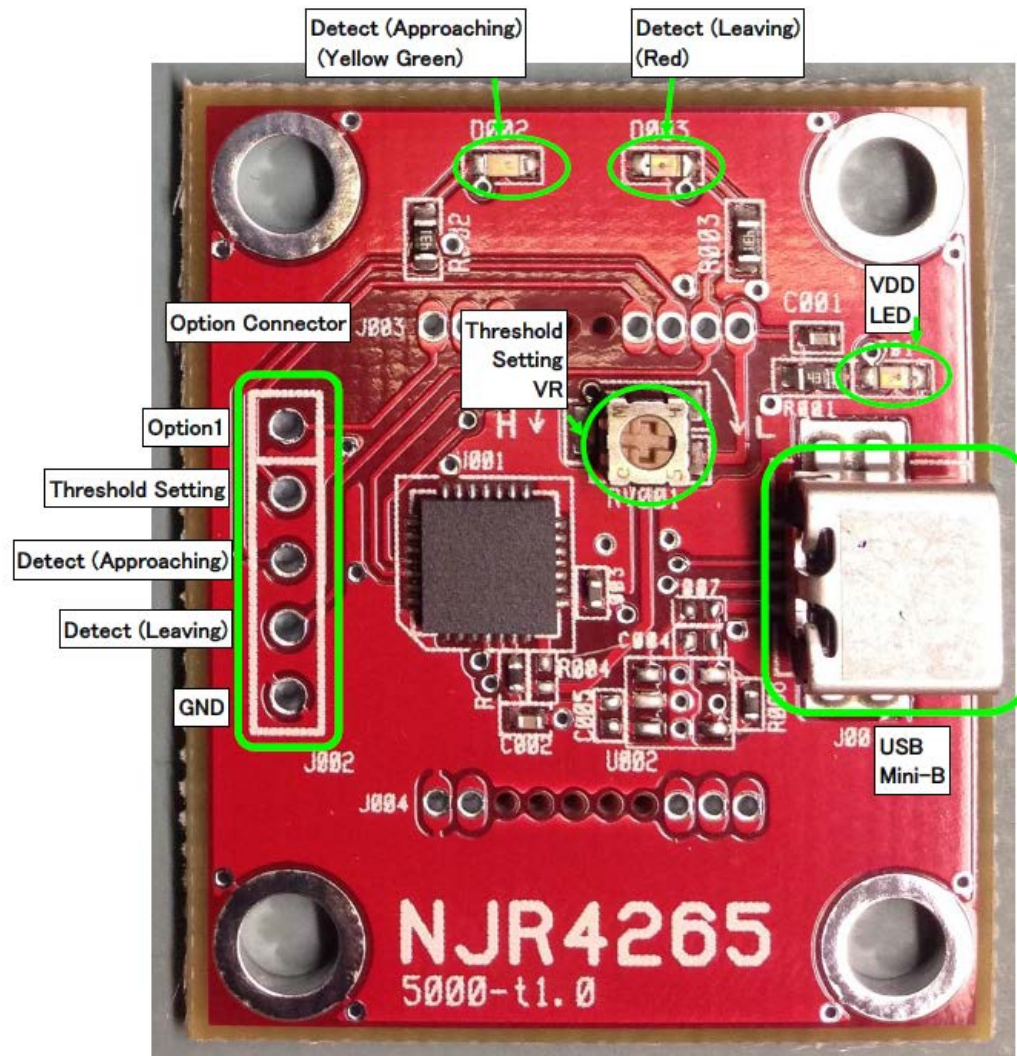
GUI Application Software: Mode Setting



Evaluation Board: Block Diagram



Evaluation Board: Functions and Layout



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