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| AceTeaM |
| Projet Arduino |
| Test Modules radios - NRF24L01 |
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| **18/08/2013** |

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| Développement logiciel du pilotage d’une plateforme domotique basé sur l’architecture Arduino. |

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## Test

Qualité du signal entre deux modules radio fréquences NRF24L01.

## Montage

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| Nb connecteurs analogiques requis |  |
| Nb connecteurs digital requis |  |
| Autres connecteurs requis |  |

## Connexions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| ArduinoMega2650Front 600x335 Léquipe Arduino présente 2 nouveaux kits : lArduino Uno et lArduino Mega 2560   |  |  | | --- | --- | | **Power** | **Usage** | | RESET | Reset | | 3.3V | Sortie 3.3V Régulée (50mA) | | 5V | Sortie 5V Régulée | | GND | Masse | | VIN | Reference voltage | | |  |  | | --- | --- | | **Analogique** | **Usage** | | A0 |  | | A## |  | | A15 |  | | **Digital** | **Usage** | | 22 |  | | ## |  | | 49 |  | | 50 (MISO) | SPI library (SPI) | | 51 (MOSI) | SPI library (SPI) | | 52 (SCK) | SPI library (SPI) | | 53 (SS) | SPI library (SPI) | | **Communication** | **Usage (TTL serial data)** | | 1 (TX0) | USB COM | | 0 (RX0) | USB COM | | 14 (TX3) |  | | 15 (RX3) |  | | 16 (TX2) |  | | 17 (RX2) |  | | 18 (TX1) |  | | 19 (RX1) |  | | 20 (SDA) | Wire library (TWI) | | 21 (SCL) | Wire library (TWI) | | **PWM** | **Usage** | | AREF | Reference voltage for the analog inputs. Used with **analogReference()**. | | GND | Masse | | 2 |  | | ## |  | | 12 |  | | 13 | OnBoard LED | |

## Résultats

|  |  |
| --- | --- |
| Description | Résultat |
| Distance MAX avant perte du signal  (sans obstacle) |  |
| Distance MIN avant perte du signal  (sans obstacle) |  |
| Test réception avec un obstacle  (planche de bois) |  |
| Test réception avec un obstacle  (mur béton) |  |