



Home Automation

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Overview

This product is a module that must be connected to the Nice modular system and add the “transmitting function” features to the central unit. This interface allows you to manage and transmit to number of groups of automation (typically 8), and so command the movements of the motors.

The button is for installation of the device on the central unit. The LEDs are for the status or like interface to program the device.

This module is powered and communicate with the other modules (of the modular system) through the “Din bus” positioned on the back-side of the device.

Description of the product

The circuit consists of:

- The U3 transceiver works like a transmitter; the signal taken from the TX-PIN (pin-4 of U3) passes through the filter, composed of passive components and reaches the $\lambda/4$ type aerial, providing a guarantee of stability as regards its characteristics and, consequently, the complete lack of calibrations. The X2 is a 26MHz oscillator that guarantees the exact oscillation base frequency for the PLL-circuit build inside the transceiver.
- The code is generated by the integrated circuit U1 and consists of a train of pulses lasting 7.6ms; as the code is the "Rolling Code" type, it changes each time it has to transmit.
- The Antenna is a $\lambda/4$ antenna connected with a SMA RP Male to SMA Female connector model ADP-SMAMRP-SMAF with gain of antenna < 1dB.