

## CASE STUDY

### RFID SOLUTION FOR INTERCOM IP TERMINALS



The Czech company 2N is the largest global manufacturer of IP intercoms. Recently, 2N announced two new combined access modules that can be connected to 2N® IP Verso and 2N® LTE Verso door intercoms. The new modules conveniently integrate a RFID reader with either Bluetooth connectivity or a touch keypad. This combination of proven technologies simultaneously ensures security and convenient building access.



An Axis company

### REQUIREMENTS

Two new combined access modules were developed for connection with 2N® IP Verso and 2N® LTE Verso door intercoms, which included the convenient feature of integrating a RFID reader with either Bluetooth connectivity or a touch keypad. For the integration of a capacitive touch keypad, 2N required a secure and multi-frequency RFID reader module that can scan a wide range of RFID cards.

### BENEFITS

- + Simplified and secured access process
- + User authentication via smartphone
- + Cost-effective solution

### PRODUCT:

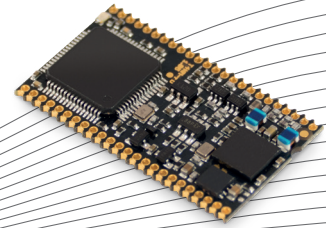
#### TWN4 MULTITECH NANO

- + Supports 60+ RFID technologies worldwide
- + Compact design
- + Remotely programmable
- + Provides usage tracking

## TWN4 MULTITECH NANO

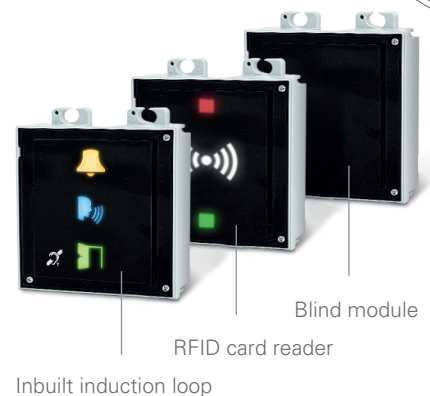
ELATEC recommends the TWN4 MultiTech Nano.

**For more information see:**  
[elatec.com/nano-modules](http://elatec.com/nano-modules)



## SITUATION

2N and ELATEC have been cooperating since 2008, when 2N launched the world's first IP intercom called 2N® Helios IP Vario. The device is a highly reliable IP door access intercom for communicating with visitors. It offers a wide range of functions and combines screen, buttons, keypad, camera and card reader into one device. The card reader module was based on ELATEC's Mini Reader MIFARE NFC, which supports many transponder types within ISO 14443 A/B standards.



## CHALLENGE

In 2016, 2N was acquired by Axis Communications AB, the number one company in the network video market. This has opened the door to long-term development for 2N and has increased their requirements for reading performance and number of supported transponders. Due to these new challenges, 2N decided to upgrade their units to the new generation of ELATEC's RFID modules, the TWN4 MultiTech Nano.



2N® IP Verso and 2N® LTE Verso

## SOLUTION

The new touch keypad and RFID reader module combines a capacitive touch keypad with a secure RFID card reader. The multi-frequency RFID reader based on TWN4 MultiTech Nano can scan a wide range of RFID cards, from unsecured 125 kHz cards all the way through to secure 13.56 MHz chips. This makes a gradual and simplified transition to newer and safer RFID technology possible. Because there is no need to immediately replace all building access cards, a usually very financially demanding process is avoided. In addition to a multi-frequency RFID reader, the Bluetooth device permits user authentication using a Bluetooth-enabled smartphone with the 2N® Mobile Key app.



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