



# Wireless Solutions

- Simple installation with support
- Provides extended wireless connectivity of up to 328 feet
- Eliminates complicated cabling
- Eliminates extensive and expensive infrastructure
- Free of any licenses or standardization

## Wi-Fi Technology

Wi-Fi stands for "Wireless Fidelity" which is another name for IEEE 802.11B. It is a trade term promulgated by the Wireless Ethernet Compatibility Alliance (WECA). "Wi-Fi" is used in place of 802.11B in the same way that "Ethernet" is used in place of IEEE 802.3. Products certified as Wi-Fi by WECA can be integrated even if they are from different manufacturers.

A user with a Wi-Fi product can use any brand of Access Point with any other brand of client hardware that is built to the Wi-Fi standard.



## Synel solution

Synel's Wi-Fi solution can be easily implemented in organizations with existing LAN network.

## Technical characteristics

Wi-Fi 802.11B - designed for working in distances of up to 328 feet and maximum connection of 11 Mbps.

## Terminals supported

SY-765, SY-785 and SY-405

Wireless Terminal



## Wireless LAN

Wireless Terminal



## IEEE 802.11



Router / Access Point

Wireless Terminal



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# Wireless Solutions

## Bluetooth Technology

Bluetooth communication is one of the latest wireless options available with Synel terminals. This technology joins other communication methods adopted by Synel, such as cellular modem, and local communication network, based on IEEE 802.11 technology.

The use of Bluetooth wireless technology enables the setup with a network of multiple terminals without the need for extensive infrastructure investments. It also simplifies the installation process for small to medium size systems. The use of Bluetooth technology, which has been recognized as a standard all over the world, eliminates the need for licensing and standardization.

## Bluetooth technology

Bluetooth technology is well established throughout the world, and is being used in a wide variety of applications. Bluetooth refers to a short-range radio technology aimed at simplifying communication among Net devices and between devices and the Internet. It also aims to simplify data synchronization between Net devices and other computers.

The recent wireless Bluetooth implementation is part of Synel's goal to continually enhance existing solutions, while developing new ones.

## Synel solution

A Bluetooth adaptor needs to be connected to the data collection computer, in which Syncomm software is installed. Through this adaptor, all stations in which Bluetooth card is installed can be accessed. The program initiates a query to each terminal separately, (according to its IP address), and only the station that is being accessed will respond. The communication between the computer and the program is secured by a PIN code, which each system administrator can choose individually. The code must be entered in both the computer and the program.

Communication is up to 197 feet inside a building, and up to 328 feet in an open area. The terminal is equipped with a compatible internal card SY-BLT/T, and when operated in this type of communication, no Ethernet card or modem is required.

Presently, the Synel SY-780 terminal supports this communication and more terminals will become operational in this technology throughout the year.

## Technical characteristics

1. Wireless communication compliant with Bluetooth Specification Ver1.1
2. Uses the license free 2.4GHz ISM Band
3. Modulation method GFSK, 1Mbps, 0.5 BT Gaussian / spread spectrum FHSS
4. High sensitivity, supports connections from up to 328 feet (Bluetooth Class 1)
5. RF power output 13dBm typical / sensitivity - 88 dBm
6. 128 bit encryption



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