

# PLUGIT™ SystemX

Theft of a computer system is not difficult and can be accomplished easily enough even with proper security measures in place. EHAG introduces its range of *PLUGIT™ SystemX* products, designed to monitor and alarm unauthorized movement of networked computers, printers and other peripherals. From in-house security monitoring to IT carrier independent SMS, *PLUGIT™ SystemX* informs a system or a person about an unauthorized tamper in real time.

What makes the system highly competitive is the short reaction time, the IT independent communication channel and the lithium battery powered *PLUGIT™ SystemX*.



## System

The *PLUGIT™ SystemX* includes one FSK-C1 up to FSK-C6 controller and one to many Nodes FSK-P45.

## Controller

FSK-CX is an UHF based controller working at either 868 MHz or 915 MHz. FSK-C1 communicates via RS232, FSK-C2 via USB2, FSK-C3 via Ethernet, FSK-C4 via Bluetooth, FSK-C5 via WLAN and FSK-C5 via GSM. The unique communication interface of the FSK-CX makes an integration into existing IT and communication environments easy and convenient.

## Node

FSK-P45 is an Ethernet based product plugged into the corporate network between the hub and the device. For the duration of its life, FSK-P45 transmits an UHF Radio Frequency (RF) signal at a pre-set time interval to the controller. As long as the controller gets the periodical signal no device has been unplugged from the system.

If an unauthorized tamper or cable cut happens, the node reacts in milliseconds and sends its identity and an alarm signal via RF to the *controller*. Even a complete system power failure or IT network breakdown does not affect the monitoring and reporting of *PLUGIT™ SystemX*.

## Features

- 2000 tag simultaneous identification
- 100 tag/sec. identification rate
- UHF operating frequencies
- Multi-tag compatibility
- A unique communication interface
- Internal Buzzer
- Real-Time operating system (RTOS)
- Security

## Benefits

- Provides high-speed data collection to facilitate warehousing and inventory-based applications
- Provides reliable identification of fast moving objects
- Operates interchangeable on standard European ISM band frequencies
- Provides communication for the whole smTAG UHF based tag families
- This unique feature of FSK-C8 makes it easy to build a controller network and to integrate it into almost any existing IT and communication infrastructure
- The internal buzzer allows early, security network independent onsite alarming
- Meets industrial requirements for reliability and robustness
- High security system with use of SHA-256 algorithm & frequency

# PLUGIT™ SystemX

## EHAG

EHAG is a global supplier of innovative RFID Technology in the UHF band.

With its unique system approach smtag provides an easy to implement set of products which reduces the time for Implementation dramatically.

System integrators of industrial, medical and corporate solutions get high quality products which offers a max. return on investment.

FSK-P45 product together with FSK-CX product line increase efficiency and quality in monitoring assets to a very high level.

To learn more about how the EHAG UHF product family can increase profitability for business, contact one of smtag's business partner

## Partner Network

Partner  
Company  
Details

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v.1.3 (03/05)

## Specification FSK-P45

### Compatibility Performance

Transmission range  
Read rate – ID only  
Read rate – 128 it data  
Multiple tag handling  
Max. response time

FSK-T, FSK-S and FSK-P family

Up to 100m  
Up to 2000 @ 9.6 KBaud  
Up to 50'000 @ 256 KBaud  
Up to 2000 tags in the read zone  
6.5ms (from standby mode)

### Communication

Frequency  
Field strength  
Typical Impedance  
Modulation  
Bandwidth, digitally adjustable  
Stability/Filter  
Data rate (download)  
Number of antennas  
Maximum transmission power  
Sensitivity, digitally adjustable  
Certification

868 MHz (EC) or 915MHz (NA) ISM Band  
-21 to 0 dBm  
-100dBm  
FSK  
Up to 400 KHz  
8 or 16 bit CRC  
2.4 to 256KBits/s  
1  
0 dBm  
-61 to -103 dBm/low sens.,  
EN 300 220 (EC); FCC part 15 (US)

### Microcontroller

Flash Memory  
Data RAM  
EEPROM Data

1792 Bytes  
64 Bytes  
128 Bytes

### Electrical

Input power  
Power  
Power Saving (standby current)  
Battery Lifetime  
Power consumption

Exchngable batteries 2 x 1.5V AAA  
2.2 –5.4Volt  
11 µA  
Typically 3 years (with Battery low warning up to 6 month in advance)  
14 mA max

### Environmental

Operating temperature  
Storage temperature  
Humidity

- 40° C to + 85° C  
- 40° C to + 85° C  
5% to 90% (non condensing)

### Physical

Dimensions  
Weight  
Colour  
Type of material

70 x 45 x 35 mm  
60 Gramm  
white  
ABS