



The mobile **FSK-CX** family from EHAG is an intelligent ISM wireless UHF controller. It is ideal for high-volume two-way wireless applications, for remote control systems, for home security and alarm systems, for industrial applications such as telemetry, sensor data logging, for personal/patient data logging, barcode readers and automatic meter reading. It provides highly accurate, real-time data collection without human intervention in wireless applications like: Identification, Remote Control, Tracking and Tracing, Monitoring of Assets, Temperature, Vibration, Pressure and many more.

- FSK-C1: RS232 Interface
- FSK-C2: USB II
- FSK-C3: Ethernet
- FSK-C4: Bluetooth
- FSK-C5: WLAN
- FSK-C6: GSM

By integration of advanced UHF radio frequency technology from EHAG, the FSK-CX transmits and receives data at distances off up to 300m (900 feet) from an FSK-T300 and up to 40m (120 feet) from an FSK-T40. The highly effective anti-collision handling algorithm allows simultaneous communication with thousands of tags within the controller read zone. Because of its low power consumption, FSK-CX can effectively operate from the controller internal rechargeable battery pack.

## 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
- 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

This unique feature of the FSK-Controller family makes it easy to build a controller network and to integrate it into almost any existing 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

## SMTAG

smTAG 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 gets high quality products which offers a max. return on investment.

FSK-C product line increase efficiency and quality

To learn more about how the FSK-C 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-CX

### Compatibility Performance

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

### 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

### CPU

Operating System  
Program memory  
Data memory  
Configuration memory  
Timebase

### User Interface

Serial interface  
USB II  
Number of status indications

### Electrical

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

### Environmental

Operating temperature  
Storage temperature  
Humidity

### Physical

Dimensions  
Weight  
Colour  
Type of material

FSK-TX, FSK-SX and FSK-GX family

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

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)

RTOS ( Real Time Operating System)

4K Flash

EEPROM

Hard coded (based on specs)

Real Time Clock (RTC) with battery-backup

RS-232, 1.2 to 256 kbit/s

Up to 400 MByte/s

2 LED's and 1 Buzzer

6V AC/DC power supply

2.2 –5.4Volt

0.3 µA

Typically 3 years

14 mA max

- 40° C to + 85° C

- 40° C to + 85° C

5% to 90% (non condensing)

100 x 195 mm

250 gramm

black

ABS