

# Description of Operation

Date: 2005/10/6

EUT is a Flex Series Controller with 1 channels (125kHz). RFID reader can captured data about an object without using a human to read the data.

## General Operational Description:

Time base of the transmission frequency:

For IF and RF frequency, Crystal is a clock reference.

Mixer:

Mixer inside Transmitter IC and operate frequency in 125kHz Band. External crystal provides the desired LO signal plus Mixer frequency base on RF signal.

Transmission:

The EUT control signal is processed by MCU Controller Unit for AM modulation. The rated output power by power external amplifier, and is to the antenna after suppression of spurious emissions through antenna matching network.

Base band Processing:

Channel Setting: Channel Setting is controlled by MCU

Data Modulation: AM modulation type, it is controlled by MCU IC.

Power Control Level: Output power is controlled by external amplifier.

Interface: Wiegand 26 or Special RS232 data output format

Power: Input 12Vdc from DC power supply. This power is provided to regulator components to regulated DC power.

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## Product Details

Items	Description
Product Type	Flex Series Controller
Radio Type	Intentional Transmitter
Power Type	Controller: DC 12V
Interface Type	Wiegand 26 or Special RS232 data output format
Modulation	AM
Frequency Range	125 kHz $\pm$ 20kHz
Channel Number	1
Max. Field Strength	60.44 dBuV/m @ 10m
Carrier Frequencies	125kHz
Antenna	Loop Antenna