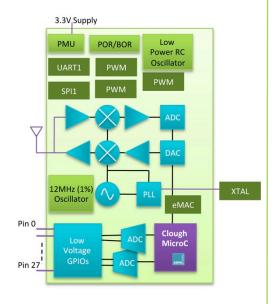


### **Herzog Features**

- ARM M0 32-Bit MCU
- 10/100 Mbps Ethernet MAC
- 433MHz Transceiver
- 160kB Flash / 8kB SRAM
- (2) 8-10 bit ADC
- (28) GPIO control pins
- Internal 12MHz RC Oscillator
- 10kHz Auxiliary Clock (<1uA)</li>
- 30MHz XTAL Osc
- (1) SPI
- (1) UART
- (3) 12-bit PWM
- 2.5-3.6V Operation
- POR/BOR



### **Recommended Applications**

Mobile, Industrial, Commercial, Automotive, Medical

# iND80230 "Herzog"

# Wireless Ethernet Bridge – Integrated 32-Bit ARM M0, 10/100 Mbps Ethernet MAC and 433MHz ISM Band

### **Transceiver**

#### **Device Description**

The iND80230 wireless ethernet bridge consists of a highly integrated 32-bit general purpose ARM M0 based microcontroller, 10/100 Mbps ethernet MAC and 433 MHz ISM Band Transceiver.

The integrated wireless transceiver operates in the 433 MHz ISM band with capability from 310MHz – 450 MHz with a maximum transmit power of +13dBm and a receive sensitivity in excess of -110dBm. The power consumption of the transceiver leads the industry with 4mA of current consumption in receive mode and 18mA at maximum output power.

The iND80230 also integrates 160kB of flash RAM and 8kB of SRAM on die for feature-rich applications or applications requiring redundancy of data storage. It also features a fully featured 10/100 Mbps ethernet MAC which allows for end applications to create a wireless bridge from ISM band applications to the internet.

The device's peripherals include a total of 28 general purpose I/O ports available to the user. It also integrates two 8-10 bit ADCs (SAR architecture) and a bandgap reference on die which supports the temperature sense circuit.

In addition, the iND80230 offers a UART interface option through the use of GPIO pins and also has three PWM output (12 bits wide), and an SPI port.

The iND80230 integrates a power management block including on-chip regulators. The device is operational from (2) AA cells for 2.5V to 3.6V operation and is packaged in low cost 5x5mm QFN or QFP packages.

## **Ordering Information**

Device Ordering Name	Platform	Temp Range	Package	Pins
iND80230 Herzog	General purpose wireless uC applications	-40C to +85C	5x5 mm QFN/P	32 Pins @ 0.50 mm Pitch