Summary

ToothPIC Industrial is a data acquisition and remote control DIN rail module with a Bluetooth radio link to PCs, PDAs, etc. It is ideal for difficult-to-access control and monitoring and where complete isolation is required.

Based on the ToothPIC Bluetooth microcontroller system, ToothPIC Industrial can take advantage of a range of existing firmware solutions and software for remote devices and at the same time achieve an amazing price / performance breakthrough.

Firmware Options

- *DARC-I firmware for fully flexible control via Bluetooth using ASCII or binary commands*
- *DARC-II firmware rapid development of user interfaces on PCs, PDA's and cellphones, with no programming required*
- *ToothPIC Slave control from PIC or BASIC Stamp host controller (IC sockets provided)*
- *Custom application development using MPLAB development environment and ToothPIC Services Bluetooth firmware layer*

Hardware Features

- *FCC / CE / IC certified Class 1 Bluetooth V1.1 radio, 100m range, integral antenna*
- *12-channel,10-bit signal conditioned single / differential inputs for direct measurement of current, 4-20mA loops, voltage, bridges, strain gauges, resistance, thermocouples, thermistors, RTD's, etc, up to 5K samples / sec.*
- *12 additional digital I/O including RS232 / 485, 2 interrupts, 5 counter / compare / PWM / D2A, FET output drivers, I2C, SPI interfaces*
- *Diode-protected, pin-configurable I/O. Unused terminals maybe be allocated as power, unused I/O to LEDs*
- *Internal rechargeable battery or external DC / AC supply. Battery monitoring available*
- *Sleep modes, interrupt from sleep*
- *Real time clock with daylight savings time*
- *PIC18LF6720 microcontroller with 128Kbyte Flash, 3.5K RAM, 1K EPROM*
- *512Kbyte I2C memory expansion slots*
- *9-unit (155mm) DIN rail enclosure*

PDA and DIN rail unit not to scale

Manufactured to ISO9001:2000

Ordering Information

Part No	Description
	ToothPIC-Industrial 52 terminal DIN rail module
	ToothPIC -Industrial 52 terminal DIN rail module – Custom firmware xxx