



Pixie DARC™

Data Acquisition and Remote Control Sensor Module for ZigBee Mailbox

Summary

Pixie DARC is a data acquisition and remote control sensor device for ZigBee networks. It is compatible with all products using the MailBox ZigBee profile.

Pixie DARCs provide digital and analog I/O under the control of remote devices, so no device programming is required to configure them. The *sleepy end device* version spends most of its time asleep and can thus be used in battery powered applications.

Pixie DARC may not provide all the functionality required in a particular sensor device. However, the source code is available to allow the firmware to be customized by OEMs. It is based on the MailBox API, a very simple ZigBee application programming interface

Firmware Features:

- Incorporates ZigBee stack and MailBox profile.
- Bind input to permit joining and erasing network data.
- Status output to indicate connection and permit join status.
- Pixie coordinator & routers feature:
 - Up to 12 digital inputs
 - Up to 12 digital outputs
 - Up to 7 digital 10-bit analog inputs
- Pixie end devices feature:
 - Up to 9 digital inputs
 - Up to 9 digital outputs
 - Up to 4 digital 10-bit analog inputs

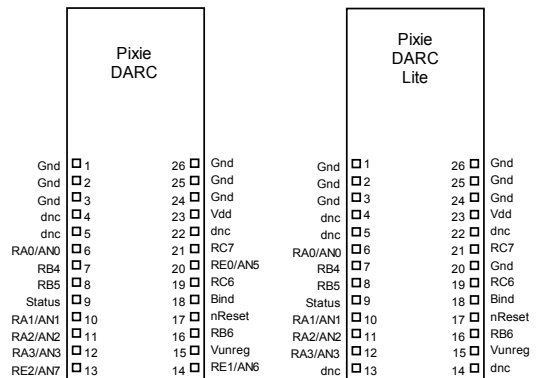
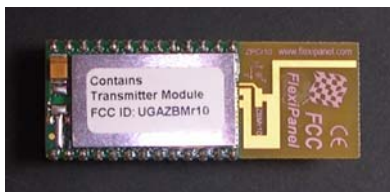


Fig 1. Pixie DARC (viewed from above)

Hardware Features:

- 2.4GHz IEEE 802.15.4 RF module
- FCC / CE / IC compliant
- Signature 'G' antenna, free-space range 120m, compact, low 'hand-effect' design
- 56mm x 20mm x 9mm

Compatible Products

- Pixie Gateway
- UZBee Gateway (when available)
- MailBox API

Ordering Information

Table 1. Ordering information	
Part No	Description
PIXIE-yy-PxDC	Pixie DARC (coordinator)
PIXIE-yy-PxDR	Pixie DARC (router)
PIXLITE-yy-LxDF	Pixie DARC (fast end device)
PIXLITE-yy-LxDS	Pixie DARC (sleepy end device)
x indicates stack profile supported: H = Home Controls	
yy indicates package: DIL = Dual-in-line through hole SO = Surface mount	

Manufactured to ISO9001:2000

