



Pixie Gateway™

Serial to ZigBee Mailbox Profile Transceiver with Command Interface

Summary

Pixie Gateway provides a serial interface to the MailBox profile ZigBee communications protocol for low data-rate wireless mesh networks. It is ideal for OEMs who need to add generic serial communications to their ZigBee networks. It incorporates an FCC / CE certified IEEE 802.15.4 transceiver and ZigBee MailBox stack.

Pixie Gateway provides a command-oriented gateway between the ZigBee network and host devices. The MailBox COM product provides a less flexible but command-free interface for transparent cable replacement applications.

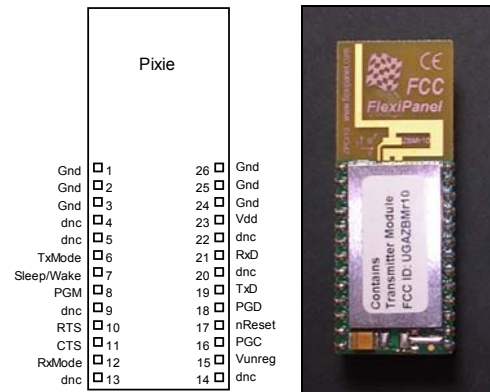


Fig 1. Pixie Gateway (viewed from above)

Firmware Features:

- Incorporates ZigBee stack and MailBox profile.
- Up to 8 functional clusters.
- MailBox services include:
 - Network joining
 - Device & service discovery
 - Data delivery
 - Sleep management
 - Custom commands
- Available in the following configurations:
 - HC-L stack profile
 - ZigBee coordinator
 - ZigBee router
 - ZigBee fast end device
 - ZigBee sleepy end device
 - Other stack profiles as required

Compatible Products

- Fully compatible with all MailBox products, including:
 - MailBox API
 - Pixie DARC
 - UZBee Gateway
 - COMdongle (when available)

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
- 115200 baud serial interface with flow control
- Sleep control input
- 56mm x 20mm x 9mm

Ordering Information

Table 1. Ordering information	
Part No	Description
PIXIE-PGCx	Pixie Gateway (coordinator)
PIXIE-PGRx	Pixie Gateway (router)
PIXIE-PGFx	Pixie Gateway (fast end device)
PIXIE-PGSx	Pixie Gateway (sleepy end device)
x indicates stack profile supported: H = Home Controls	
Pixie Gateway is free for use with FlexiPanel Pixie products	

Manufactured to ISO9001:2000

