Summary

PixieMAC provides a serial command interface for the IEEE 802.15.4 standard for single-hop low data-rate networks. It is ideal for OEMs who need to add single-hop wireless serial communications to their products. It incorporates an FCC / CE certified IEEE 802.15.4 transceiver.

PixieMAC provides a command-oriented gateway between the IEEE 802.15.4 MAC and PHY layers and the host device. The StarLite firmware provides a less flexible but command-free interface for transparent cable replacement applications.
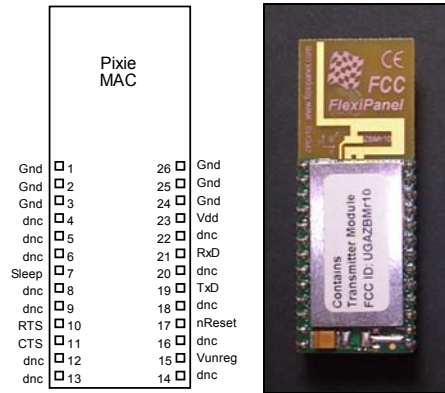

Fig 1. PixieMAC
(viewed from above)

Firmware Features:

- *Supports IEEE 802.15.4 non-beacon networks.*
- *Up to 32 cached messages (storage permitting).*
- *Certain devices may sleep*
- *Certain devices may broadcast*

Compatible Products

- *Fully compatible with other IEEE 802.15.4 products, including:*
  - *MACdongle*
  - *StarLite*
  - *StarLite USB*
- *FlexiPanel's ZigBee Demo Board may be used for evaluation*

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*
- *54mm x 20mm x 3mm*

Ordering Information

Table 1. Ordering information	
Part No	**Description**
PIXIE-PXMC	PixieMAC (coordinator)
PIXIE-PXMF	PixieMAC (fast end device)
PIXIE-PXMS	PixieMAC (sleepy end device)
PixieMAC is free for use with FlexiPanel Pixie products	

Manufactured to ISO9001:2000