EL-PR-1 USB Serial Programmer/Debugger

CONNECTED INNOVATION

From Proof of Concept to Proof of Value

Here at fieldcloud, our core focus is on "learning by doing". Since 2009 we have been helping our customers, from startups to large enterprises create useful solutions for the Internet of Things .

The fieldcloud EL-PR-1 is our official programmer/debugger interface for the AirBoard, an autonomous, Arduino-compatible 8-bit microcontroller platform for building experimental IoT devices.

The EL-PR-1 has two USB serial UART interfaces, one for device programming and wireless module configuration, the other for debugging embedded code on the AirBoard.

VALUE ADDED SERVICES

fieldcloud provides consulting, custom engineering and educational services .

We also offer IT infrastructure, connectivity and cybersecurity compliance services, using a network of telecom, data center hosting and application platform partners.
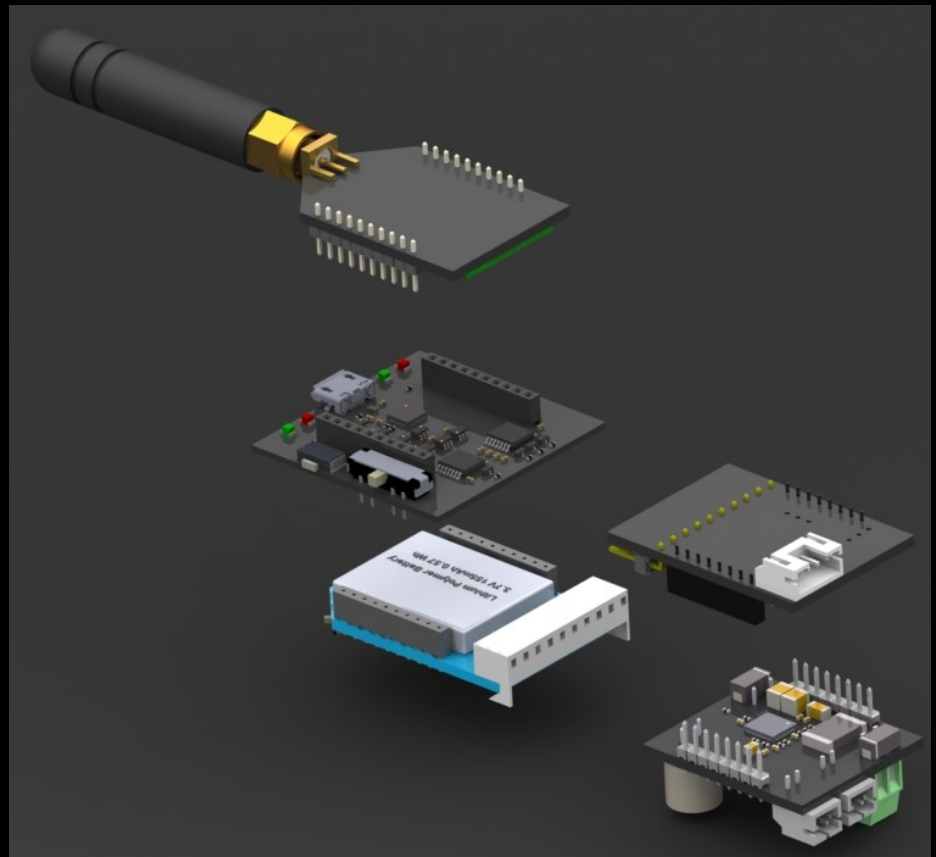
Please contact us for any special project requests. With over 20 years experience in industrial and oil & gas enterprise IT and supervisory control systems we are qualified to build bespoke solutions that meet your business requirements.

BENEFITS

Accelerate wireless IoT experimentation.
Configure wireless modules and perform device programming.
Debug embedded code easily using the second serial UART interface.
XBee form factor compatible for use with AirBoard and many 3rd party wireless modules.

FEATURES

Silicon Labs CP2105 dual serial UART chip.
3 way mode switch.
'Sandwich' form factor with XBee socket and pin header .
RF reset button.
TX/RX LEDs for visual indication of serial traffic.
USB bus powered with 3V 500mA supply for XBee wireless module.

fieldcloud
connected. integrated.

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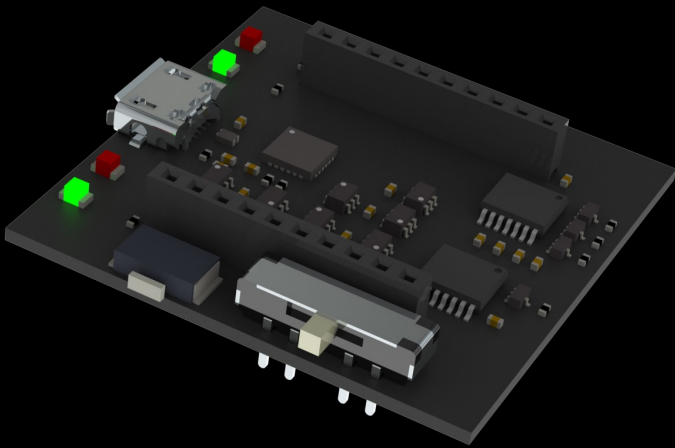Web: http://fieldcloud.com

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eliot
experimental internet of things

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Physical and Electrical Specifications

Dimensions	**33mm W x 33mm L x 12mm H**
Power	**Peak <300mA @ 5V DC (USB Bus Powered)**
Operating Temperature	**0° to +50° C**
Storage Temperature	**-20° to +70° C**

System Specifications

USB	**Silicon Labs CP2105 dual UART**
Serial	**Enhanced COM Port for device programming**
Serial	**Standard COM Port for AirBoard debug**
Interface	**2.0mm XBee header for AirBoard**
Interface	**2.0mm XBee socket for wireless module**
Mode Switch	**3 positions**
	• **Center AirBoard device programming**
	• **Right wireless module**
	• **Left pass through (AirBoard to wireless)**
Reset Button	**Push Button for wireless module reset**
Debug	**Serial TX/RX on AirBoard GPIO pin 7 & 8**