



## FLIR SKYRANGER™ R70 AND R800 SKYRAIDER™ PAYLOAD DEVELOPMENT KIT

# Payload Rapid Prototype Kit

Designed to address the needs of the FLIR UAS development community the Payload Rapid Prototyping Kit, provides all the hardware necessary to support payload and sensor integrations using the FLIR PDK.

The kit contains a PCB with exposed headers for simple prototyping and integration. Easily interface your ethernet, serial, USB or other devices to access aircraft data and telemetry or push your own data over the secure system datalink.

Included mounting hardware is designed to securely connect the PCB to the aircraft while providing easy mounting points for processors, sensors and accessories, to get you from bench test to flight test quickly and easily.

Helping developers get to final design in record time, the Kit also includes the CAD files and schematics you require to turn your prototype into a full-fledged payload.

### FEATURES

#### PAYLOAD RAPID PROTOTYPING BOARD

A PCB which fits into the existing payload bay on SkyRanger™/SkyRaider™ platforms, providing headers for all supported PDK interfaces as well as the identification hardware and accessories required for a complete payload integration.

#### PAYLOAD RAPID PROTOTYPING HARDWARE

A payload shell designed to house the Rapid Prototyping Board and mechanically interface with compatible airframes. The housing also provides several attachment points which can be used to secure sensors or hardware for prototyping.

#### TECHNICAL DOCUMENTATION

An included USB provides the technical specifications for the PCB and hardware, mechanical CAD files and PCB schematics allowing you to jump start your design efforts.

### APPLICATIONS

SENSOR AND CAPABILITY INTEGRATION

PROTOTYPING

RESEARCH AND DEVELOPMENT

## SPECIFICATIONS

### Payload Rapid Prototype Kit

#### Aircraft Hardware

SkyRanger™ R70

R80D SkyRaider™

#### Hardware Interfaces

UART (Telemetry) configurable:  
TTL, RS232, RS485 (terminated / unterminated)

UART (Control) configurable:  
TTL, RS232, RS485 (terminated / unterminated)

Ethernet  
proprietary  
Standard RJ45

#### Software Interfaces

Ethernet bridged  
communication  
TCP

TCP-serial bridged  
communication  
Baud Rate: 115200, 8N1

GPS NMEA  
All messages enabled

Serial Telemetry  
Baud Rate: 115200, 8N1 various messages and rates

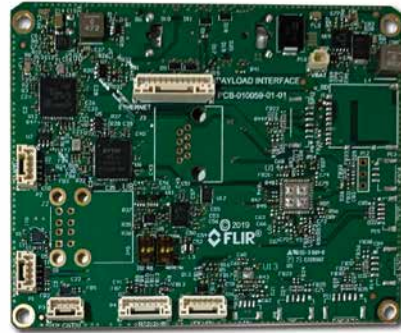
#### Power

20-36V @ 1A  
Tolerant to 50V

3.3V @ 1A  
5V@1A available, see "Rework options to board"

## FLIR Payload Development Kit:

Visit [www.flir.com/products/udk](http://www.flir.com/products/udk) for more information



Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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