

Declaration of Design and Performance

DDP No.: 120-00009

Issue No.: 1.0

DDP Change Control Ref: JIRA No. HWD-389

Note: Before specifying equipment, check with Flightcell International that this declaration is the currently valid version

MANUFACTURER

Flightcell International Ltd

Address: 98 Vickerman St, Nelson, New Zealand 7010

DECLARATION OF DESIGN AND PERFORMANCE

System Name: Flightcell Iridium Extreme MK5 Cradle

Part No.: CRP_05001

Description: The Flightcell Iridium Extreme MK5 Cradle is a mounting system designed specifically for the Iridium Extreme satellite phone, providing a secure and reliable method to integrate the satellite phone into the communication system.

Data interfaces include a general-purpose ring indicator, RS-232 communications and audio in/out. The Flightcell Iridium Extreme MK5 Cradle has been designed to be mounted using 4xM5 Screw holes spaced 50.8mm and 101.6mm apart.

Rev No.: 3.1

Weight & Overall Dimensions: ~680g (excluding phone).

Overall Dimensions	
For more specific data, refer to the assembly diagrams	
Part Description	Value
Width	66.0mm
Height	222.5mm
Depth	59.5mm

System Wiring Diagrams	
Diagram No.	Description
WRL_CRP_001 D25	Iridium Cradle Standalone Wiring Diagram

Performance:

The Flightcell Iridium Extreme MK5 Cradle meets all the specifications and requirements as outlined in this document. The main performance specifications are listed below.

Item	Detail	
DC Power Source	+12V - +32VDC (28V nominal) Average current: ~0.500A @ 28VDC	
Interface	RS-232, Analog Audio, GPO(Ring Indicator)	
Connector(s)	D25 Plug	Mating Connector: M24308/2-3F

Installation and Operation References:

Manual No.	Description
117-00025	Flightcell Iridium Extreme Cradle Installation and Operation Manual

Declarations:

The limits of declared performance and those implied by the declarations below are not intended to be absolute but are intended to indicate performance to which it has been designed.

Cooling Requirements

The unit is passively cooled. No special cooling required.

Ingress of fluids, sand and dust

The unit is designed to be protected against fluids, sand and dust, however no external testing has been completed.

Storage

The unit should be stored at a temperature of not less than -55°C and not more than +85°C.

Operating temperature

The ambient operating temperature range for the unit is -10°C to +55°C (Based on operating limits of 9575 Iridium Extreme satellite phone).

Storage Life

The shelf storage life is not less than 5 years under controlled storage conditions.

CERTIFICATION

The declaration in this document is made under the authority of Flightcell International Ltd.
Flightcell International Ltd cannot accept responsibility for equipment used outside the limiting conditions stated above without their agreement.

Signed: _____

Authorised Signature: John Wyllie
Position: Accountable Manager
Effective Date: 28 February 2025

No Testing has been done on CRP_05001