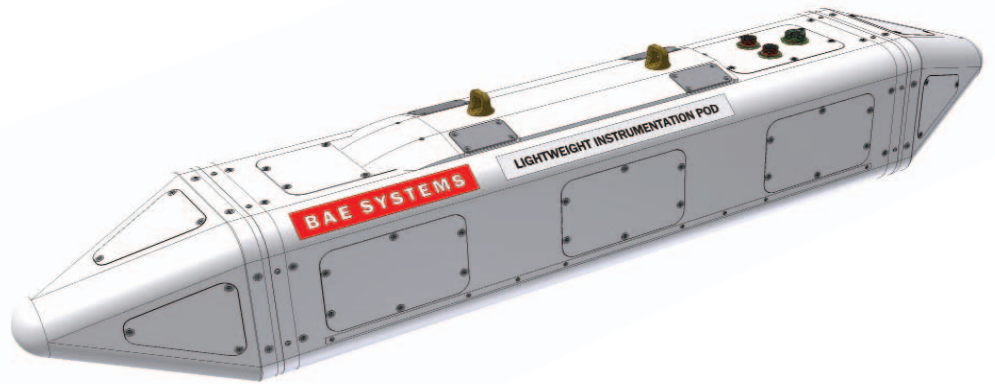


Lightweight Instrumentation Pod (LwIP)





BAE Systems Lightweight Instrumentation Pod (LwIP) is a scalable and flexible pod system that allows for small to medium sized payloads to be carried on manned or autonomous airborne platforms with minimal impact to the parent platform.

The LwIP is designed around an interchangeable system of internal chassis, nose and tailcone assemblies and multiple hatch panel apertures for ease of mounting of payload equipment.

Weight penalties are minimised by the application of carbon fibre construction and low drag options are available for nose and tailcones.

The physical design architecture is modular and scalable such that a new design variant of LwIP can easily be implemented to tailor the equipment pod to specific payloads.

Additionally, apertures, nose and tailcones can be customised for simple mounting and application of optical, RF or other payloads that are commonly employed in the Electronic Warfare and C4ISTAR (Command, Control, Communications, Computing, Intelligence, Surveillance, Target Acquisition and Reconnaissance) domains.

Key Features:

- Highly flexible and scalable system
 - Numerous hatch panels and apertures for maximum flexibility
 - Interchangeable nose/tailcones and internal chassis
 - Cross section size, geometry and length may be customised
- Downward facing apertures for ground looking systems or downwards ejection or release of payloads
- Upwards facing apertures for GPS/Satcom coverage
- Quadrant apertures and mounts for omnidirectional ES (Electronic Support) systems
- Forwards and rearwards mounted equipment for designation and EA (Electronic Attack) systems
- Suspension options
 - Standard 14"/30" MIL-A- 8591 compatible
 - Custom mounts for optimised systems (via hardback modifications)
- Low drag optional fore and aft bodies

LwIP specifications (Baseline Pod):

- Overall Length: 1.95m
- Internal Payload (cross section): up to 260 x 260mm (Centre section capable of carrying 2 x 1ATR Long/Tall equipment racks)
- Pod Mass (Empty): 25kg (Baseline LwIP with 14" Hardback)
- Payload Mass: 95kg (Max, Baseline LwIP)
- Zero lift drag coefficient (Cdo): 0.12
- Flight envelope: Compatible with Learjet 35/36 & rotary wing applications

Applications for autonomous/manned aircraft operations:

- Airborne Test and Evaluation
- Developmental payload airborne testbed
- Airborne optical IR/VIS surveillance
- Target acquisition, tracking and battle damage assessment
- Communications relay
- Hyper-spectral payloads
- Tactical jamming
- Battlefield Electronic Support (ES)
- Datalinks and Networked Systems
- Platform Electronic Warfare Self Protection (EWSP)
- Rescue beacon, equipment or pamphlet drops
- TCAS - Traffic Collision Avoidance Systems/ flight navigational aids
- Low cost, light weight airborne cargo transfer

FOR MORE INFORMATION CONTACT:

BAE Systems
 2 Second Avenue
 MAWSON LAKES SA 5095
 PO Box 1068 Salisbury SA 5108
 Telephone +61 (0)8 8300 4400
 Fax +61 (0)8 8300 4510
 www.baesystems.com/australia
 BAE SYSTEMS AUSTRALIA

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