

CSIR MULTI-PURPOSE FAST JET ELECTRONICS POD

The CSIR has developed a multi-purpose modular pod that can be integrated with a fast jet aircraft for a variety of uses in training, test and evolution, as well as prototype payload development. The Inundu pod was designed to provide a protected environment for prototypes or unqualified payloads against the harsh airborne environment.

The CSIR also offers a mature Digital Radio Frequency Memory-based payload for Beyond-Visual Range Air Combat Training and Anti-Surface Missile Engagement.

Key features:

- 150 litres of volume for custom electronics payloads;
- A radome that is customised to frequency band. Windowed nose cone for optical payloads in visible infrared or ultraviolet is optional;
- Custom-designed payload enclosure;
- 1.5 kW cooling capacity (optional heating) with automated temperature control to protect against condensation;
- 2.3 kW of self-generated electrical power with additional supercapacitor banks;
- Multi-point radio network with up to 150 km range;
- Optional WiFi console for payload control;
- Inertial navigation unit on-board;
- No electrical or power integration required; and
- Highly programmable DRFM-based payload



available as either a Radar Threat Emulator or electronic attack payload.

Technical details:

- The pod is similar in size and mass to the BL-755. It can be integrated on all fast jet aircraft certified to carry the BL-755, such as F-16, Tornado, F-4 Phantom, BAE Hawk, Hawker Hunter, Alpha Jet, Mirage F1 and so forth;
- The pod can be fitted to any aircraft that uses NATO standard lug interface, including modified business jets;
- Flight envelope to 500 KCAS, Mach 0.95, 35 000 ft, -3 g to 6 g;
- Typical pod mass is 260 kg. The weight and centre of gravity can be corrected for custom payloads;
- Wireless interface comes standard with the aircraft to simplify integration. Connected options are available;
- Aerodynamically stable and can be jettisoned;
- Ram Air Turbine generates full power from 300 KCAS upwards; and
- Standby power for low speed or wheels down.

Contact: Anton Van Der Merwe | **E:** AvdMerwe2@csir.co.za | **www.csir.co.za**



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



CSIR
Touching lives through innovation