

Abuja, 18th of July, 2019



FRONTEX TECHNOLOGY BRIEFING

SEPTEMBER 25, 2019

Gustavo Duarte - Senior Sales Manager

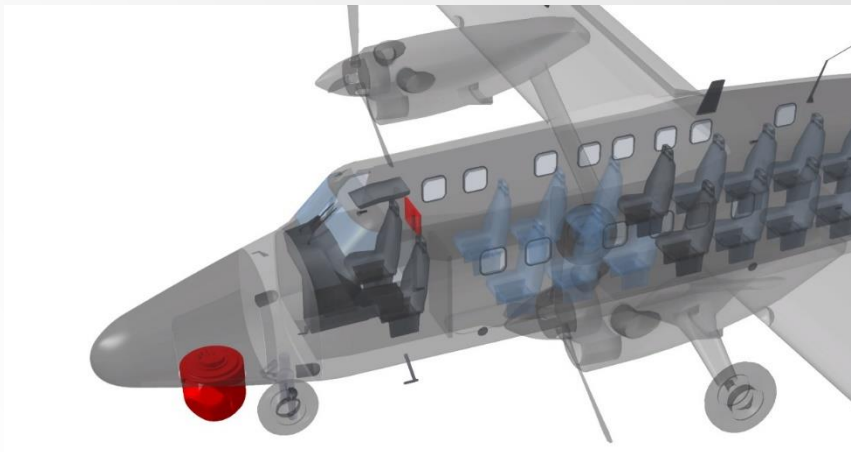
ABT BRIEFING



Who we are

What we offer

Past projects



WHO WE ARE

Austrian Center of Excellence for Airborne System Integration



WHO WE ARE



- The ISR integration technology provider
- Founded in 2008
- Special ops with own aircraft fleet
- Global customer base

Airborne Technologies GmbH

Airport Wiener Neustadt, Austria



EASA Part 21 J
EASA Part 21 G

Approved Design Organisation
Approved Production Organisation

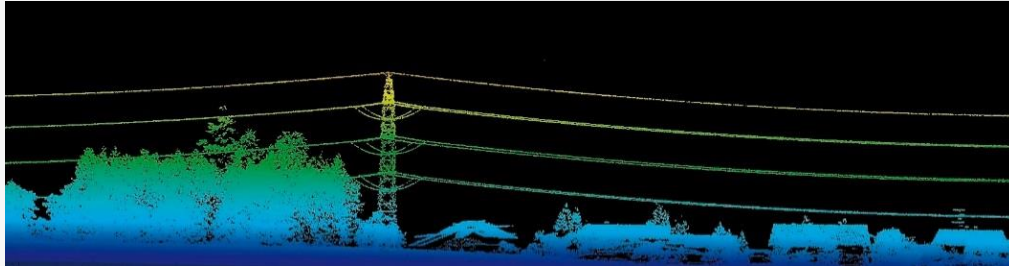


ISR AIRWORTHINESS EXPERTS



- Over 200 EASA approved modifications on fixed and rotary wing aircraft
- Production Organisation Approval (Part 21G)
- The Design Organisation Approval's CS-23, CS27 and CS29 Scope (Part 21J) includes minor and major changes (STC) in the fields:
 - *Avionics*
 - *Cabin modifications*
 - *Electrical systems*
 - *Flight characteristics*
 - *Hydro-mechanical systems*
 - *Structures*

WHAT WE OFFER



AIR OPERATIONS
[Aerial Surveys, ISR Ops & Data Services]



SPECIAL MISSION UPGRADES
[Integration + Certification]



SPECIAL MISSION AIRCRAFT
[Aircraft + Integration + Certification]

WHAT WE OFFER: ISR INTEGRATION SCOPE

FIXED INSTALLATION

Mission Equipment is fully integrated into the aircraft

FIXED WING



ROTARY WING



S.C.A.R. - POD





ISR CAPABILITY ON DEMAND

EO/IR CAMERA BRACKET

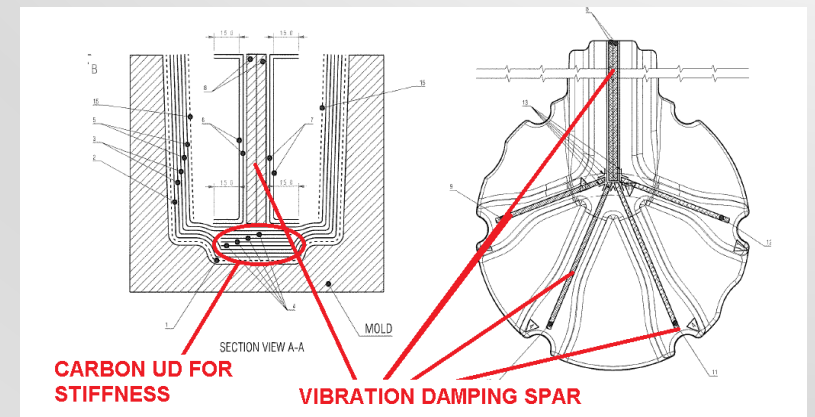


EC 135

- Lightweight carbon fibre construction
- Internal Vibration damping due to special carbon fibre/kevlar construction
- Increased structural strength



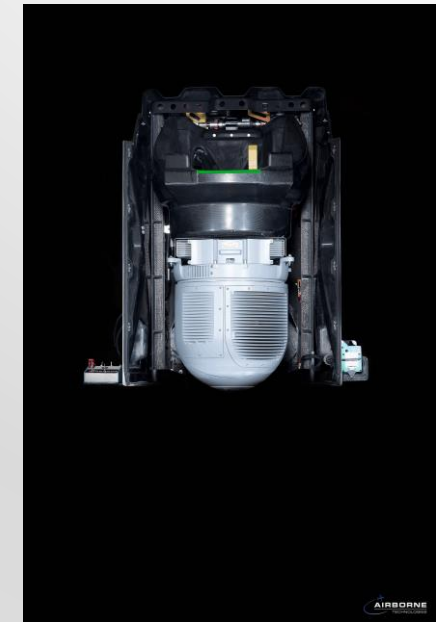
EC 145



EO/IR CAMERA LIFTS



- Lightweight carbon fibre construction
- Electrical camera lift
- For 10", 15" and 20" gimbals



EO/IR CAMERA LIFTS



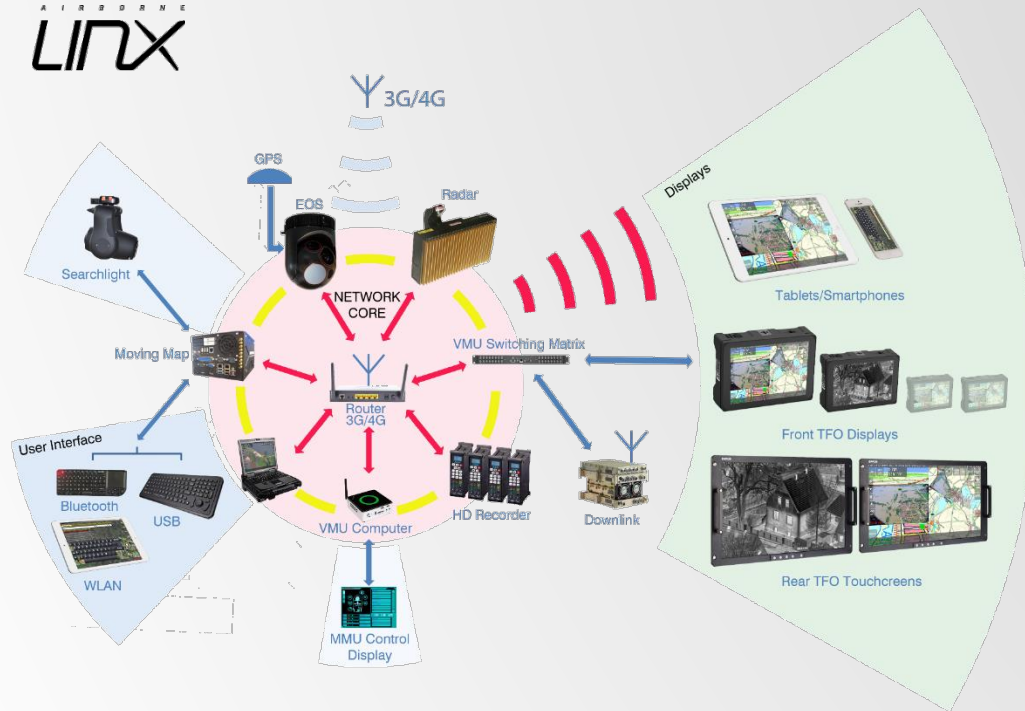
SCAR POD: PLUG & FLY ISR



Self Contained Aerial Reconnaissance Pod

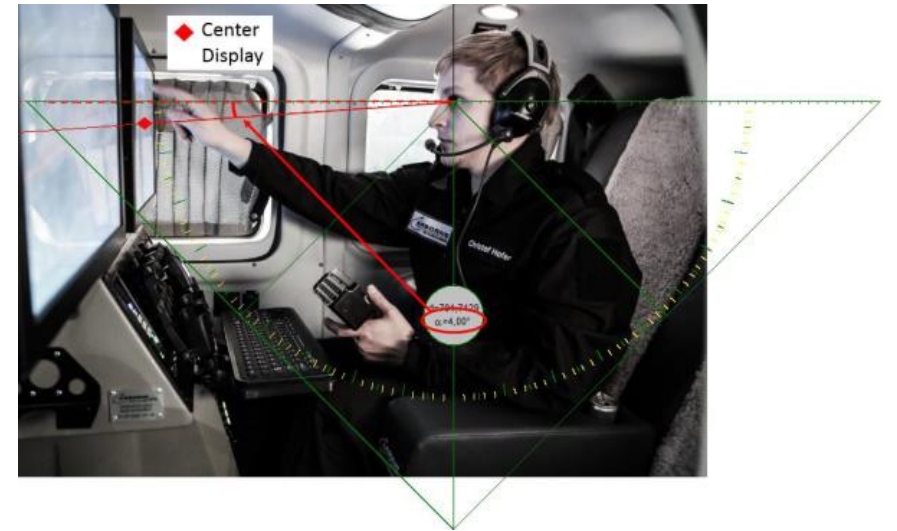
- Self-Sufficient ISR Capability
- **No airframe modifications**
- Compatible with **NATO 14" and Warsaw Pact Standard hard points**
- Upgrade every aircraft to an ISR platform
- Carries all ISR mission systems

SCAR POD + AIRBORNE LINX [MISSION CONTROL UNIT]



HUMAN FACTORS ENGINEERING

[Ergonomics] + [Clean Cabin] = Less Operator Fatigue & Effective Workflow



OUR TACTICAL WORK STATION

Lightweight Carbon Fibre construction

- Fully **customizable**
- Quick release plate (**removable**)



TACTICAL WORKSTATION - ACCESSORIES

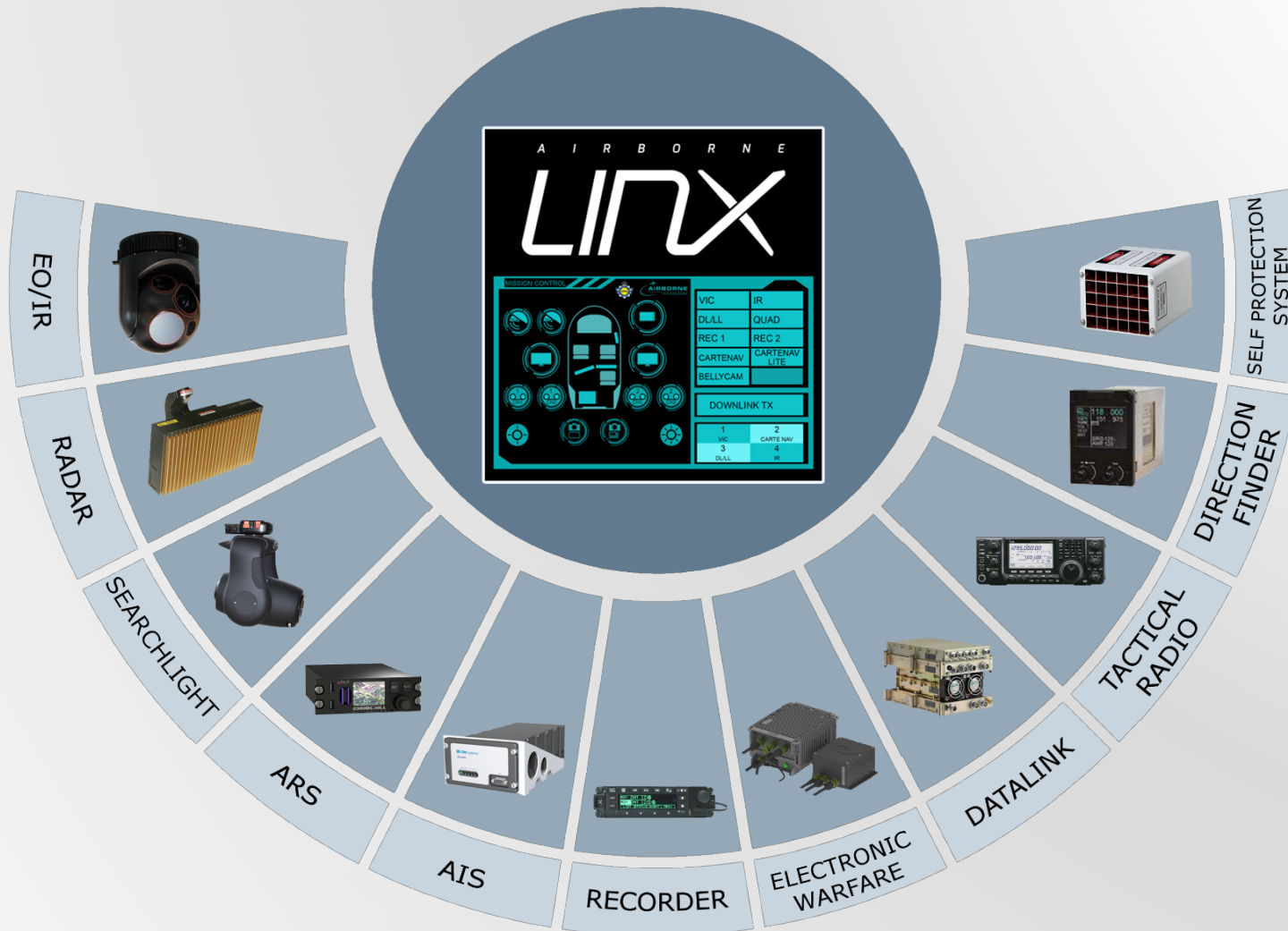


Wardrobe



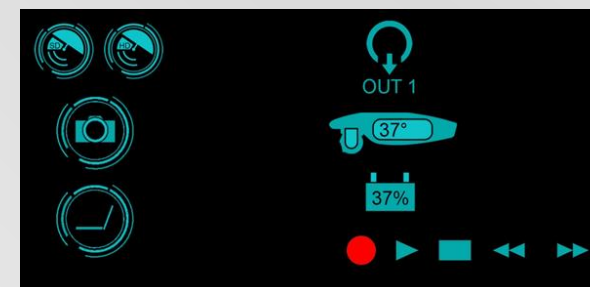
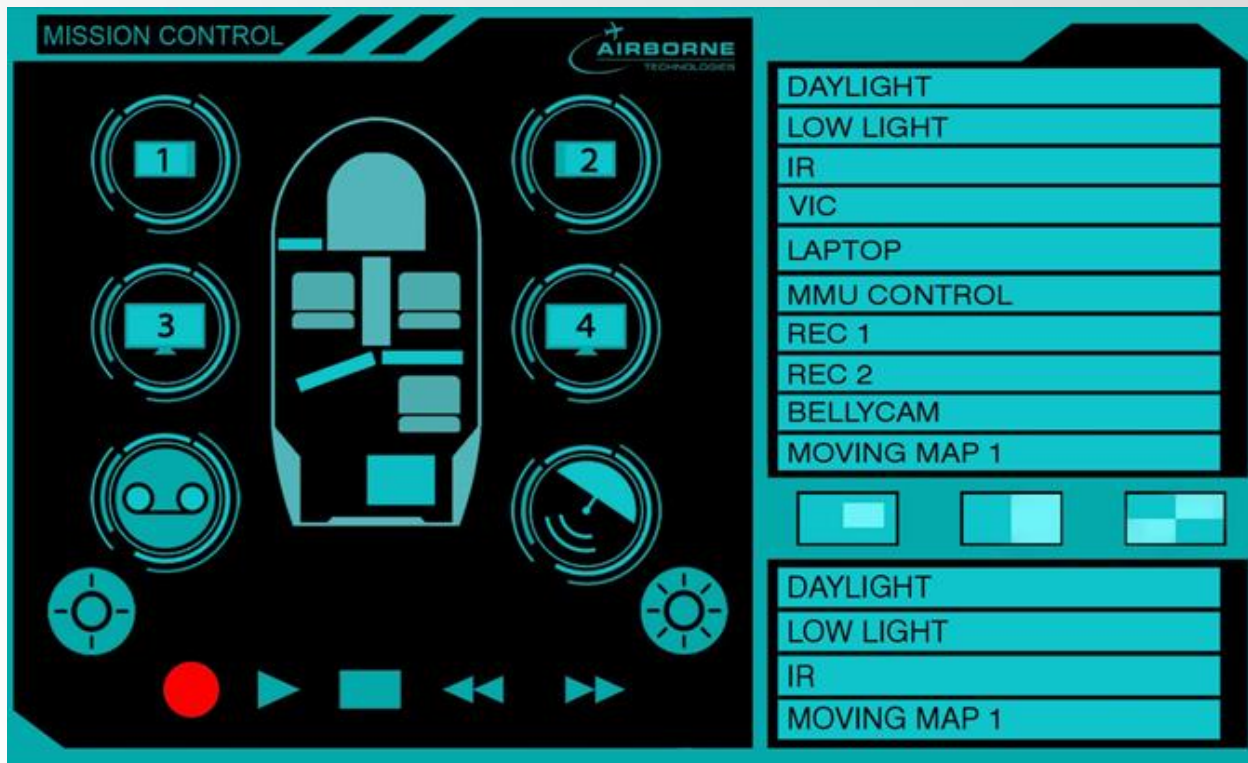
Power supply for tactical workstation

MISSION EQUIPMENT COMPLEXITY



MISSION MANAGEMENT UNIT AIRBORNE LINX

An **open architecture** mission control unit for all systems on board – developed by **ABT**



LOGISTICS



- **Single Point of Contact** (project execution & after sales)
- Documentation Package: EASA Certification (STC)
- Design & Engineering: made in Austria
- Upgrade Installation & Tests: on-site and in Austria
- Mission Training
 - Sensor Operation
 - Mission Management
 - Airborne Sensor Operator – tactical training



NEXT INCOMING REQUEST - SEARCH FOR A STOLEN CAR

PAST PROJECTS



A-VIATOR MARITIME PATROL AIRCRAFT

Based on the turboprop platform Vulcanair A-Viator





PC9 - SLOVENIA

SCAR-Pod on Slovenia Air Force's PC9



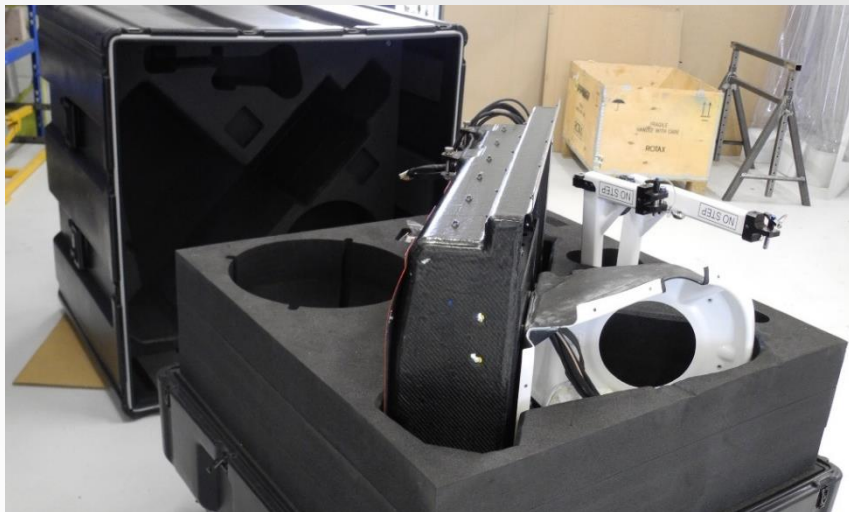
THRUSH 510G - PREVIOUS INSTALLATIONS



BELL 412 - PREVIOUS INSTALLATIONS



LEONARDO AW109 – REGA SEARCH & RESCUE (CH)





ADAM POD ON CESSNA 182 (JOINTLY DEVELOPED WITH JOANNEUM RESEARCH)

INDRA - SPAIN

P2006T MRI - Maritime Patrol Aircraft
INDRA Optionally Piloted Vehicle (OPV) Programme





EC135 MISSIONIZED WITH AIRBORNE LINX





EC135 MISSIONIZED WITH AIRBORNE LINX



EC 145 MISSIONIZED WITH AIRBORNE LINX

GERMAN POLICE MECKLENBURG VORPOMMERN

EC135 replacement of optical system and operator workstation for alternate use in two helicopters for airborne police missions



GERMAN POLICE BRANDENBURG

EC135 upgrade to the leading edge for airborne police missions

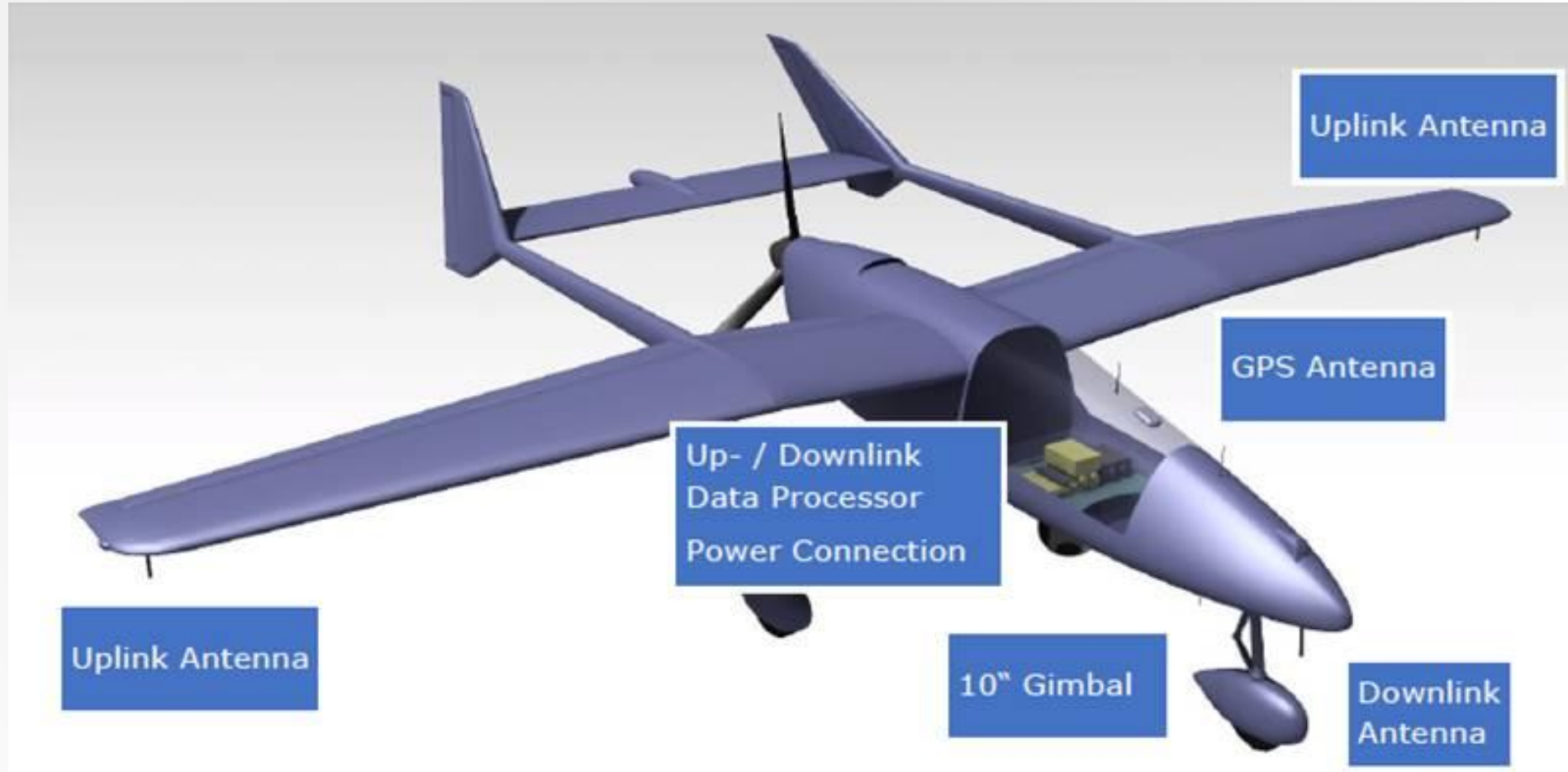




VULCANAIR P68 OBSERVER FOR GERMAN POLICE HESSEN



LEONARDO FALCO MISSION EQUIPMENT UPGRADE



MARITIME PATROL TWIN OTTER 400 GUARDIAN



MODULARITY + LIGHTWEIGHT + HUMAN FACTORS



Q&A



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THANK YOU FOR YOUR ATTENTION

