

# **ISLANDER I510**

The Islander I510 is a twin-engine turboprop airliner that can seat 130-150 passengers in single class configuration, but two class options is available. It is designed to have the capacity of a medium-sized narrowbody airliner but being a turboprop, it has much better fuel economy than its turbofan or even the more advanced geared turbofan counterparts.

Being a turboprop, the I510 is optimized for short-haul flights of less than 4,100km or 2,550mi where the speed of a jet is negligible in comparison, making it far superior in fuel efficiency.

The aircraft shares much commonality to its sister ships, the I600 and I620 making it easier for airlines to operate mixed fleets of Islander narrowbodies to better optimize operations and reduce maintenance and crew training costs.

The aircraft has engines mounted on a high-wing configuration making it a possibility for the I510 to operate out of unpaved runways giving the aircraft potential for special operations to remote areas of the world where aircraft of similar size require heavy and expensive modifications.

The aircraft is powered by two Europrop TP400-D7B turboprops with a power output of 8,000kW or 11,000shp making it the most powerful single-rotation turboprop in the world. This power allows the I510 to be the largest civilian airliner with STOL capability.

## ***Passenger***



## ***Fixed Combi***



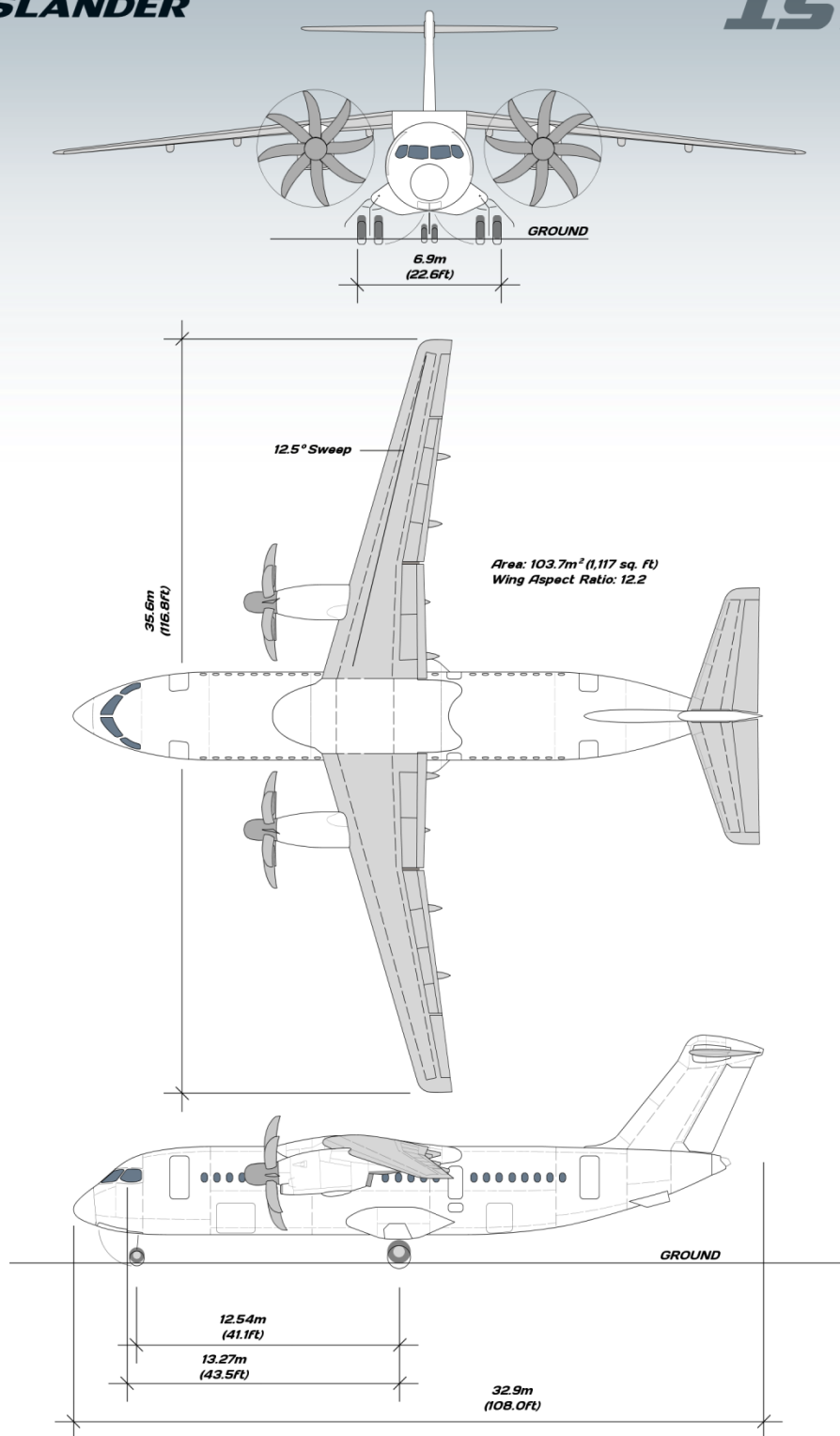
## ***Freighter***



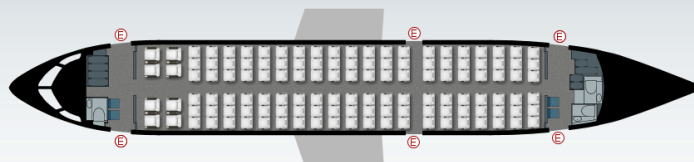
CREW		FUEL	
Cockpit	2	Volume	14,390L / 3,800 US gal
Cabin	3-5	Weight	11,660kg / 25,710 lb
PASSENGERS		PERFORMANCE	
Maximum	150	Range (km)	4,100km / 2,550mi / 2,210nm
1-class	132	Speed max.	775km/h / 482mph / 418kn
2-class	128	Speed cruise	750km/h / 466mph / 405kn
CARGO		Service ceiling	9,500m / 31,000 ft
Volume	30m <sup>3</sup> / 1,070 cu ft	Takeoff run	1,200m / 3,940 ft
ULD	3x LD3-45	ENGINES	
OVERALL GEOMETRY		Europrop TP400-D7B	
Length	32.90m / 108.0 ft	Power Output	8,200kW / 11,000shp
Wingspan	35.6m / 116.8 ft	COMBI VERSION	
Fuselage width	4.04m / 13.2 ft	Main deck ULD	3x LD7 (88" x 125")
Cabin width	3.81m / 12.5 ft		1x LD8 (60" x 96")
Wheelbase	12.54m / 41.1 ft	Main deck volume	39.28m <sup>3</sup> (1,386 cu ft)
WINGS		FREIGHTER VERSION	
Wing area	103.7m <sup>2</sup> / 1,117 sq. ft	Main deck ULD	8x LD7 (88" x 125")
(exposed + center box)			1x LD8 (60" x 96")
Aspect ratio	12.2	Main deck volume	93.28m <sup>3</sup> (3,291 cu ft)
Wing loading	638.77kg/m <sup>2</sup> / 130.7 lb/sq. ft		
Sweep	12.5deg		
WEIGHTS			
MTOW	66,240kg / 146,030 lb		
MZFW	54,580kg / 120,320 lb		
OEW	35,740kg / 78,790 lb		



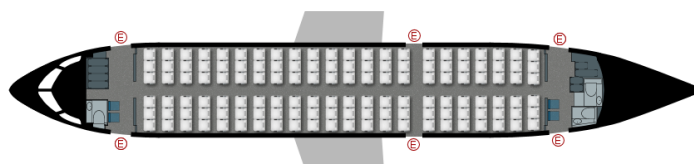
# I510



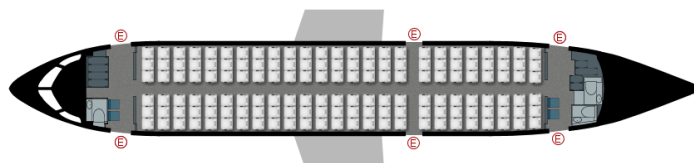
## GENERAL DIMENSIONS



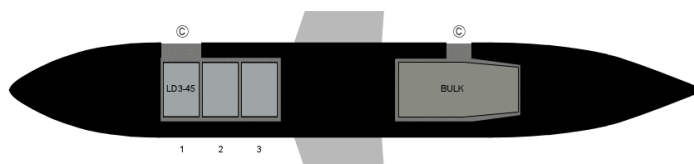
***2-class 8C + 120Y***



***1-class 132Y***



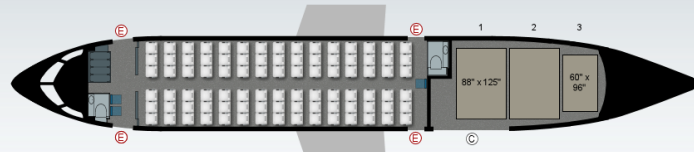
***Dense 150Y***



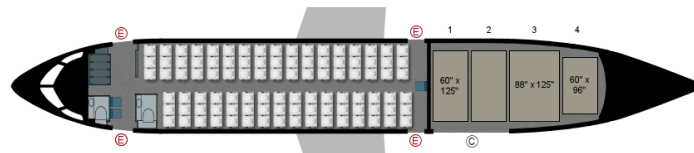
***Cargo 3x LD3-45***

***CONTAINER MODE: 11.1m<sup>3</sup> (390 cu ft) + 12.0m<sup>3</sup> (430 cu ft) bulk***  
***BULK MODE: 30.0m<sup>3</sup> (1,070 cu ft)***

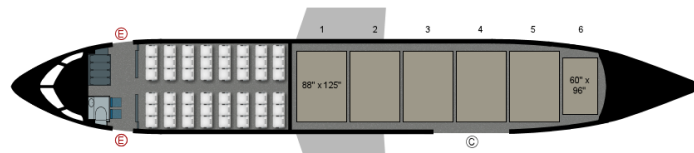
## ***TYPICAL CONFIGURATIONS***



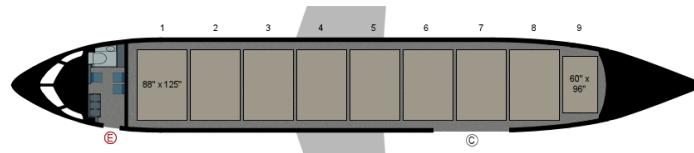
***1-class 90Y + 2x LD7 + 1x LD8 pallets***



***Dense 99Y + 2x LD11 + 1x LD7 + 1x LD8 pallets***



***1-class 48Y + 5x LD7 + 1x LD8 pallets***



***All-freight 8x LD7 + 1x LD8 pallets***

## ***FREIGHTER CONFIGURATIONS***