

# CITATION X

## Elliptical Winglets

THE WORLD'S FASTEST  
BUSINESS JET JUST GOT BETTER



**Winglet**  
TECHNOLOGY

PERFORMANCE - PRODUCTIVITY - STYLE

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**Winglet**  
TECHNOLOGY

## PERFORMANCE IMPROVEMENTS

### Increased speed at higher altitudes

- ▶ Up to 12kts at ISA temperatures
- ▶ Up to 20kts at ISA +10 temperatures

### Improved hot day / high altitude take-off performance

- ▶ Up to 4° C or 1,200 lbs for flaps 5 departures
- ▶ Up to 5° C or 1,270 lbs for flaps 15 departures

### Increased range capability

- ▶ Up to 220 NM for 4 passengers, NBAA IFR reserves, ISA temperature
- ▶ Up to 315 NM for pre-172 S/N's with winglets and 400 lb GW increase
- ▶ Up to 550 NM for 4 passengers, NBAA IFR reserves, WAT limited take-off

### Higher initial flight levels

- ▶ Direct to FL 430 @ MTOW and ISA +10
- ▶ Direct to FL 450 @ MTOW and ISA
- ▶ Direct to FL 470 @ 34,000 lbs and ISA

### Reduced time-to-climb

- ▶ FL430 reduced from 137 to 37 minutes @ MTOW and ISA +10
- ▶ FL450 reduced from 84 to 27 minutes @ MTOW and ISA
- ▶ FL470 reduced from 138 to 31 minutes @ 34,000 lbs and ISA

### Improved climb gradient

- ▶ 1/2% 1st & 2nd segment climb gradient improvement

## ECONOMIC CONSIDERATIONS

### Reduced fuel consumption

- ▶ Up to 6% for high speed cruise flight profiles

### Reduced direct operating costs

- ▶ Increased range reduces en-route technical stops
- ▶ Up to 2,100 lb fuel savings per technical stop avoided

### Enhanced aircraft resale value

- ▶ 100% Blue Book value of installed winglet STC

Winglet Technology, LLC and Cessna Aircraft Company have collaborated to develop the world's fastest winglet for the world's fastest business jet.

The Elliptical Winglet shape provides superior aerodynamic performance across a broad range of mach numbers and operating conditions. The patented Elliptical Winglet shape ensures the lift distribution of the wing closely matches the optimum lift distribution along the span of the wing, which significantly reduces the induced drag of the aircraft. The resulting drag reduction enhances the overall operational performance for the Citation X and provides significant performance benefits.

Winglet Technology has received FAA STC approval permitting the installation of Elliptical Winglets on the Cessna Citation X aircraft. In addition to FAA approval, the STC has been approved by EASA (Europe), TCCA (Canada), ANAC (Brazil), and DGAC (Mexico).

## ELLIPTICAL WINGLET KIT SALES PRICE

- ▶ Winglet retrofit kit price - \$415,000
- ▶ Pricing valid through 2010 year end

## ELLIPTICAL WINGLET KIT PURCHASE PROCESS

- ▶ Owner / operator contracts directly with Winglet Technology
- ▶ \$50,000 deposit required to secure current pricing and secure delivery position

## ELLIPTICAL WINGLET KIT INSTALLATIONS

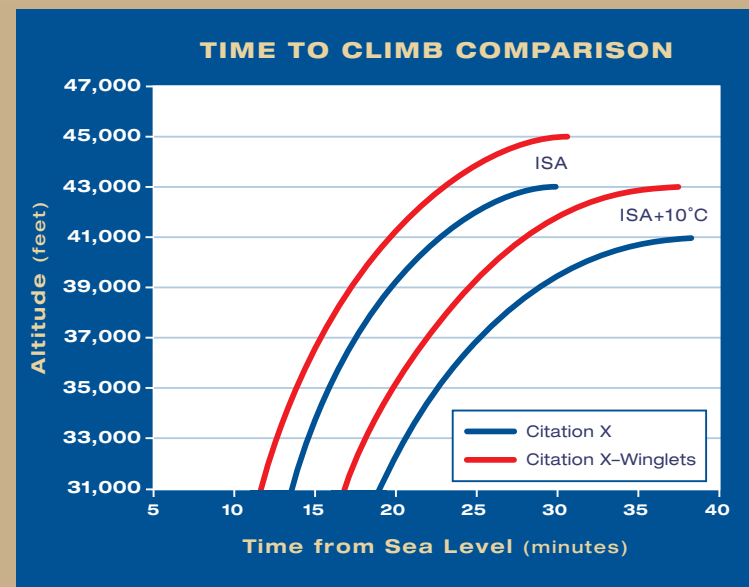
- ▶ Cessna owned Service Centers installing winglet retrofit kits
- ▶ Owner / operator contracts directly with Cessna owned Service Center
- ▶ Winglet Technology provides technical support during installation

## ELLIPTICAL WINGLET KIT WARRANTY

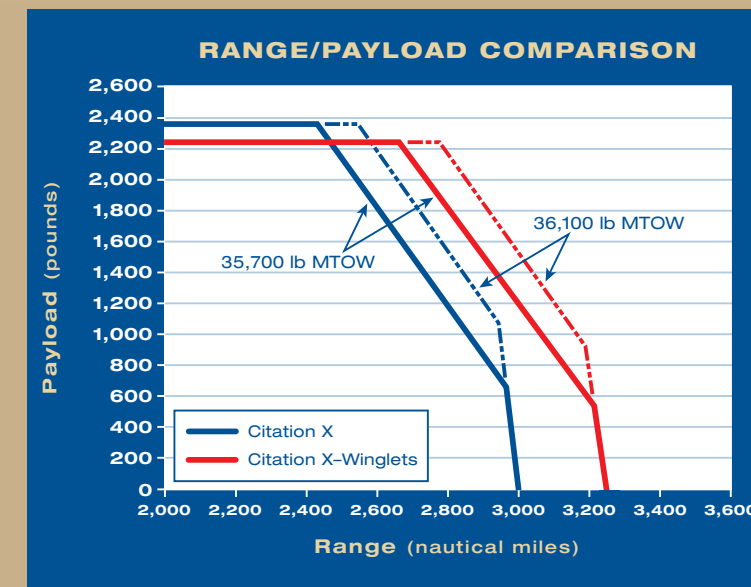
- ▶ Winglet Technology provides 5 year limited / transferable material and workmanship warranty for winglet retrofit kit
- ▶ Cessna Service Center provides 5 year workmanship warranty for winglet kit installation
- ▶ Existing Cessna limited airframe warranty unaffected by winglet installation

## ELLIPTICAL WINGLET PRODUCT SUPPORT

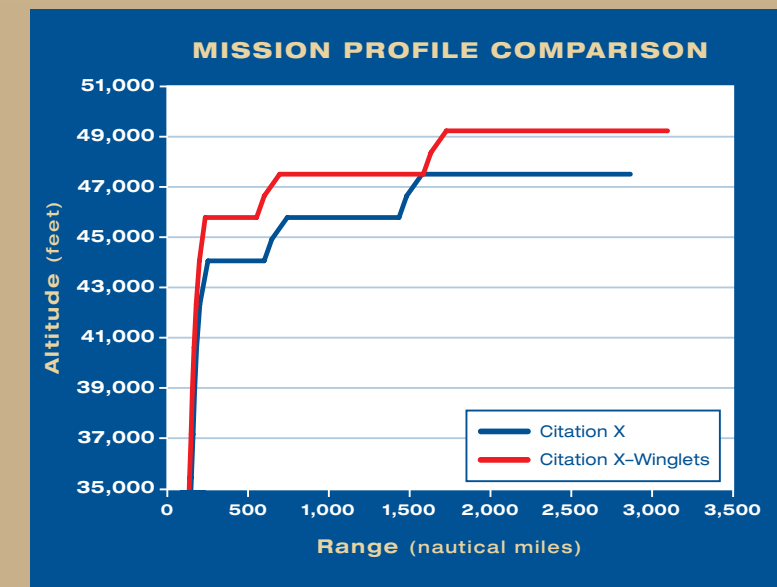
- ▶ Citation Parts Distribution (CPD) provides 24 / 7 spares support
- ▶ Cessna Team X and Winglet Technology provide 24 / 7 technical support
- ▶ Rental winglet assemblies available through CPD



MTOW 36,100 lb, 270 KIAS Climb, Anti-Ice Off



High Speed Cruise, 270 KIAS Climb Speed, ISA Conditions, NBAA IFR Reserves 1,900 lb, Anti-Ice Off, Zero Wind



High Speed Cruise, 270 KIAS Climb Speed, ISA Conditions, MTOW 36,100 lb, NBAA IFR Reserves 1,900 lb, Anti-Ice Off, Zero Wind