

A high-angle, close-up photograph of a white Eclipse 550 twin-engine turboprop aircraft. The aircraft is shown from a front-quarter perspective, highlighting its sleek nose, cockpit windows, and the upper fuselage. The registration number N550 is visible on the vertical stabilizer. The background is a dark, clear sky. The text 'ECLIPSE 550' is overlaid in white, with '550' inside a white parallelogram shape. A small 'TM' trademark symbol is to the right of the '550'.

**ECLIPSE 550** <sup>TM</sup>



## A NOTE FROM 41,000 FEET

Dear Eclipse Enthusiast:

As you know, private aviation is more than just moving a team of people from point to point. It is about saving time and money, creating more hours in the day during which your team can perform. A private aircraft is a business tool that allows your company to get more done in less time. It is about efficiency.

There are many aircraft to choose from, but there is only one that is defined by its efficiency: the Eclipse 550 twin-engine jet. In a joint study conducted by GAMA and NBAA, it was reported that 70% of all general aviation flights were less than 750 nautical miles and carried three or fewer passengers. This typical mission fits the Eclipse Jet perfectly. When you fly privately, why burn an excessive amount of fuel to fly with empty seats? Why not fit the tool that you use to the job at hand?

We invite you to consider the Eclipse 550 as your personal jet aircraft. The Eclipse is the only twin-engine jet built around the concept of single pilot operations. Our avionics platform has been proven in over 250,000 fleet hours to be safe and easy to fly. It is also the least expensive twin-engine jet to own and operate, costing under \$3MM and burning only 48-59 gallons of fuel per hour total. It puts the practical benefits and sheer exhilaration of jet ownership within the means of more people and companies than ever before.

Take a look through the information on the following pages and you will see that the Eclipse 550 outperforms its competitors in nearly every category imaginable. Then contact us to learn how you can become an Eclipse Jet owner.

Fly Safe. Fly Fast. Fly an Eclipse 550 Jet!

The Customer First Team  
[contact@eclipse.aero](mailto:contact@eclipse.aero)

*The Eclipse 550 over Oshkosh, WI*

INCREDIBLY EFFICIENT.

## REMARKABLY EASY TO FLY.

The Eclipse 550 features best in class safety, performance, and economics. Not only does it allow you to fly in pressurized comfort above the weather at altitudes up to 41,000 feet at a maximum cruise speed of up to 375 knots (430 mph), it does so while consuming just twice the fuel as a large SUV.

When you add the enhanced safety features found in the Eclipse 550 such as Auto Throttles, Anti-Skid Brakes, Synthetic Vision, and Enhanced Vision, and the most sophisticated avionics system in the light jet market, you begin to understand the true value that the Eclipse 550 presents.

*The Eclipse 550 is the only twin-engine jet in production today with an acquisition cost of under \$3MM. It also burns 35% less fuel than its nearest competitor and has a Direct Operating Cost that is less than many high performance, single-engine turbo-props.*



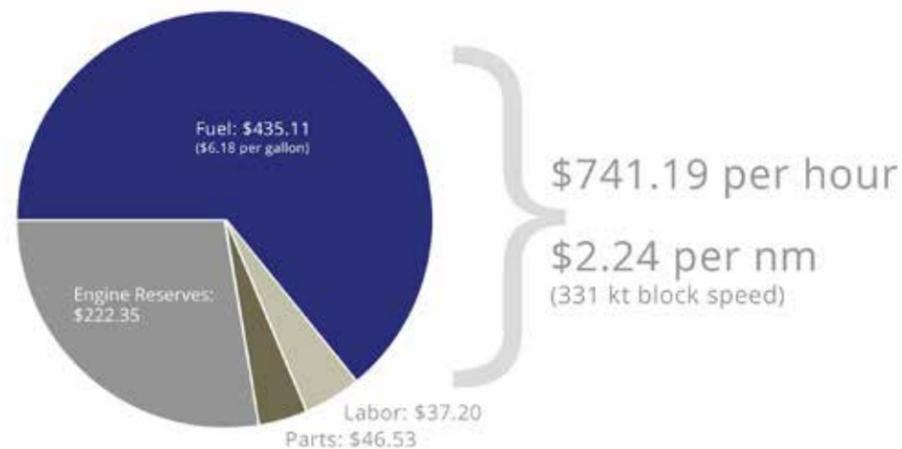
## ACQUISITION COSTS COMPARED



*The Eclipse Jet flying near Charleston, SC*



## ECLIPSE 550 DOC



DOC information reflects direct hourly operating costs from BCA 2014 Operations Planning Guide and 2014 Conklin & deDecker Aviation Information. Fuel price set at \$6.18 per gallon.

	Fuel Burn	Eng Reserves	Labor	Parts	TOTAL DOC
Eclipse 550	\$435.11	\$222.35	\$37.20	\$46.53	\$741.19
Citation Mustang	\$618.00	\$244.29	\$68.82	\$84.04	\$1,015.15
Embraer Phenom 100	\$646.70	\$238.93	\$38.76	\$38.30	\$962.69
Pilatus PC-12	\$409.95	\$170.08	\$63.24	\$78.68	\$721.95
Beechcraft King Air C90	\$558.67	\$214.68	\$90.21	\$87.00	\$950.56
Socata TBM 900	\$442.75	\$166.71	\$69.75	\$20.00	\$699.21

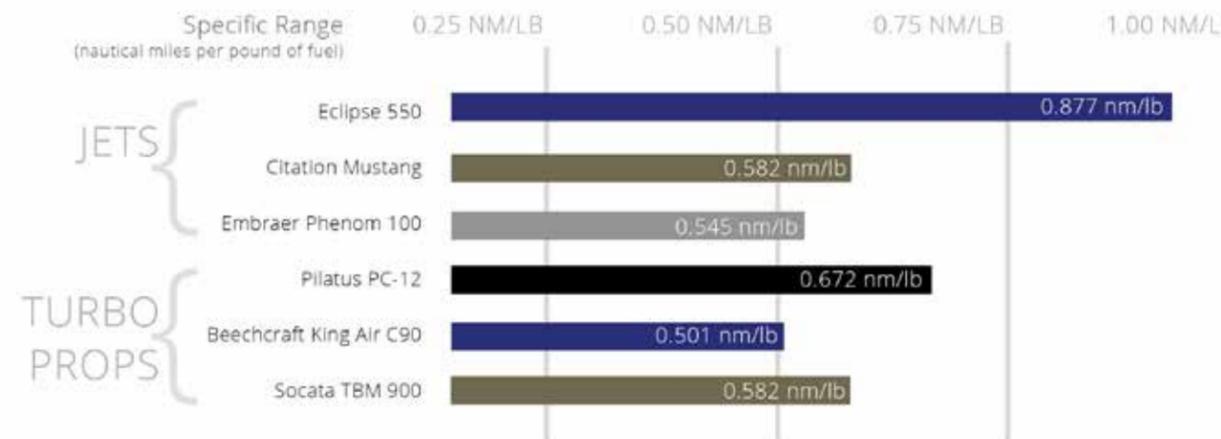
DIRECT OPERATING COSTS / HOUR

The Eclipse 550 costs less than any other twin-engine jet to operate. When you look at the specific range of the 550 compared to other aircraft, even most high performance turbo-props, you will see that the Eclipse is truly the most efficient aircraft in production today.

## WHY DO WE BUILD THE ECLIPSE 550?

Eclipse Aerospace has done something that no other aircraft manufacturer has ever done: we built a twin-engine jet that is affordable, easy to own, easy to operate, and offers safety features and performance capabilities previously found only in military and commercial aircraft.

We built a private jet for the business person who believes in practical and efficient travel; for the man or woman that needs to be in three cities in one day and doesn't want to sacrifice dinner with their family in order to do it. We built a jet to fit your mission, your lifestyle, and your budget.



## SPECIFIC RANGE ON A 1,000 NM FLIGHT

2 PILOTS, 4 PASSENGERS, NBAA IFR RESERVES



The Eclipse 550 flying near Oshkosh, WI

YOUR TIME. YOUR MISSION.

## YOUR ECLIPSE 550.

What's the best way to describe the Eclipse 550? We think the right word is 'unrivaled.' The Eclipse 550 is the only twin-engine general aviation jet ever designed from the ground up to be flown single pilot, coming standard with a unique Integrated Flight Management System (IFMS) that acts as a virtual copilot as you fly, increasing situational awareness, monitoring systems, and giving you over-speed and under-speed protection with the only auto throttle in the light jet segment. The simplicity of flight that the IFMS provides is truly unrivaled by any other aircraft in our class.

Want to fly a jet that is safe, simple, and affordable to maintain? When you consider the low costs, the industry-leading three-year standard warranty, and the ongoing service that Eclipse provides from their worldwide service network, you can quickly see that the economic advantages of the Eclipse will continue for as long as you own your aircraft.

While some aircraft cost less per hour to operate, the number of hours of operation that it will take to fly the same distance puts that cost in true perspective. And this doesn't take into consideration the amount of time you will have to spend on the ground refueling! The total DOC (in thousands) to get to 100,000 nm is listed at the end of each bar.



TIME TO FLY 100,000 NM —  
**WHAT IS YOUR TIME WORTH?**



## YOUR BOARDROOM **IN THE SKY**



Private air travel increases your team's effectiveness by allowing you to attend multiple meetings in one day, all while avoiding the unnecessary delays typically experienced at congested commercial airports. With the Eclipse 550, you fly above the weather in an incredibly quiet cabin, affording your team the opportunity to discuss strategy, logistics, or general business plans when traveling without having to worry about sensitive points being overheard by those around you.

Done with meetings for the day? With ergonomically designed interior appointments constructed from the finest materials available, you will be free to work or rest, play or dream. Enjoy the quiet of your flight. Relax. The Eclipse 550 is perfectly suited for your journey, wherever it may take you.



*Left: Typical 5-seat configuration of the Eclipse Jet  
Below: The Eclipse Jet over Bulls Bay Golf Club in Awendaw, SC. Who said that the Eclipse was strictly business?*



# COMPLETE INTEGRATION EQUALS EASE OF FLIGHT

The Dual Avio Integrated Flight Management System (IFMS) on the Eclipse 550 is an incredibly advanced system whose purpose is simple: make piloting the Eclipse Jet safe and easy. By reducing the number of switches and dials in the cockpit and creating an easy to use synoptic page for each aircraft system, the design team at Eclipse has simplified the act of flying by producing pilot controls that are more intuitive.

The avionics system in the Eclipse 550, designed to be completely integrated, gives the pilot the ability to move between graphical systems interfaces quickly, removing unnecessary data and allowing the pilot to focus on the task at hand. Each synoptic page is displayed on the large, high resolution, multi-function display (MFD), providing the pilot a complete picture of the operations and performance of that system, all in one location.



Above: The Standby Display Unit on the pilot side next to a PFD with optional synthetic vision.

Left: The standard cockpit panel of the Eclipse 550

Below: The Weight and Balance screen on the Eclipse QRA



The Eclipse Quick Reference Application (Eclipse QRA) for the Apple iPad® provides pilots with the ability to use an iPad as a unique flight-planning tool and for inflight reference documentation. The Eclipse QRA includes a weight and balance flight planning tool, interactive flight checklists, and performance planning tools.

In addition, the Eclipse QRA is capable of providing digital copies of the Aircraft Flight Manual (AFM), updated Temporary Revisions, and other pertinent EAI publications.

## THE ECLIPSE QUICK REFERENCE APP (QRA)



*The Eclipse 550 flying near Oshkosh, WI*

## ADVANCED FEATURES.

# ADVANCED SAFETY.

At Eclipse, we take particular pride in the safety record of our fleet. We designed the Eclipse Jet to be flown single pilot, adding safety features that other light jets can only dream about — features that heighten awareness of weather, traffic and other obstacles in flight. We have streamlined control of the Eclipse Jet to make piloting your own jet a less formidable task. Simply put: we built the Eclipse 550 to be safe and easy to fly.

The majority of pilot / owners fly the aircraft as a single pilot, having complete confidence in the capabilities of the Avio system to act as their virtual copilot. The Eclipse avionics system features a redundant Integrated Flight Management System, Class 3 E-charts, FADEC engine control, and XM Satellite Weather. The high resolution MFD / PFD displays control all of the major aircraft systems. Dual WAAS / SBAS beta-3 GPS receivers from IS&S are utilized for precise navigation. With enhanced situational awareness, electronic charts and maps, display and control of the aircraft systems, and the integrated autopilot control panel, the pilot is provided with the most advanced Flight Management System available in a light jet.



*The Eclipse 550 flying near Oshkosh, WI*

## SIMPLY PUT: WE BUILT THE **ECLIPSE 550** TO BE SAFE AND EASY TO FLY.



### Anti-Skid Brakes

The electronically activated Anti-Skid Brake system in the Eclipse 550 allows for maximum braking energy and skid control. Testing has shown the Anti-Skid Braking system to stop an aircraft at normal landing speeds in approximately 700 feet.



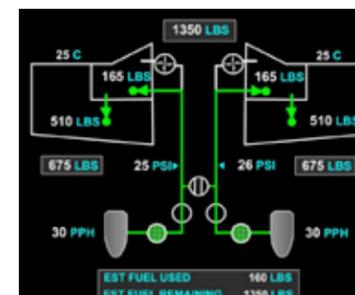
### Auto Throttles

Couple the throttles to the auto flight system, selecting the appropriate airspeed for the autothrottle system to maintain, and servos in the throttles will physically adjust the thrust lever angle to the appropriate power setting.



### Synthetic Vision

Create a 3D picture of your flying environment, showing a clear map of the terrain, routing, desired flight path, and obtain a visual on the runway. Where rising terrain may pose a hazard, potential flight-into-terrain risks will be color coded for easy recognition.



### Synoptic Pages

Avio's synoptic pages allow the pilot to see all of the information relative to a complete system all in one place. Want to check out the fuel flow? Go to the system synoptic page (pictured above) to see flow, pressure, sump tanks, and fuel remaining.



### Enhanced Vision

Enhanced Vision uses forward looking infrared technology to allow the pilot to see the runway environment through clouds or fog when visibility is limited. This greatly enhances the pilot's ability to see the runway at night or in low IFR conditions.



### Flight Into Known Icing

Every Eclipse Jet comes with the ability to fly into known icing conditions. The 550's pneumatic de-icing boots will remove ice buildup from the wings as you move through the weather on the way to your destination.

# WE TRAIN PROFESSIONAL AVIATORS

Not only did we build a jet with an incredibly intuitive flight management system, we built one of the most in-depth training programs of any aircraft manufacturer, equipping our pilots with the knowledge necessary to safely operate the Eclipse 550. This includes not just a thorough and complete training on the avionics of the aircraft, but also on resource management, risk avoidance, and how to maintain situational awareness at all times.

It doesn't matter what you fly now: all you need to pilot the Eclipse 550 is a multi-engine and instrument rating. Our world-class training program will teach you the rest. If you are new to jet aircraft with low hours, we will help you transition with personalized care. If you are a high-time professional pilot, the transition course will be quick and easy with minimal hassle.

Whether you plan to pilot your own aircraft, or have someone else do it for you, one Eclipse Jet training package comes standard with every purchase of the Eclipse 550. It's just another way we are reducing your cost of ownership.

*Above Right: Pilot adjusting headset while taking the left seat in the Eclipse for the first time.*

*Below Right: The Level-D, full-motion Eclipse Jet simulators at SimCom, Orlando, FL.*

*Below: Training in an Eclipse Jet flight simulator at SimCom.*



## TRAIN TO PILOT AN ECLIPSE 550 JET

### **Pre-Requisites for Eclipse 550 type training:**

Pilots are required to possess a Private Pilot Certificate with Multi-Engine, Instrument-Airplane Land rating, and a Third Class Airman Medical Certificate to enter the Eclipse Jet Type Rating course. Pilots must also complete the Jet Basics course, Emergency Situation Training, including both Upset Recovery Training and Aviation Physiology Training, as well as a Flight Skills Assessment.



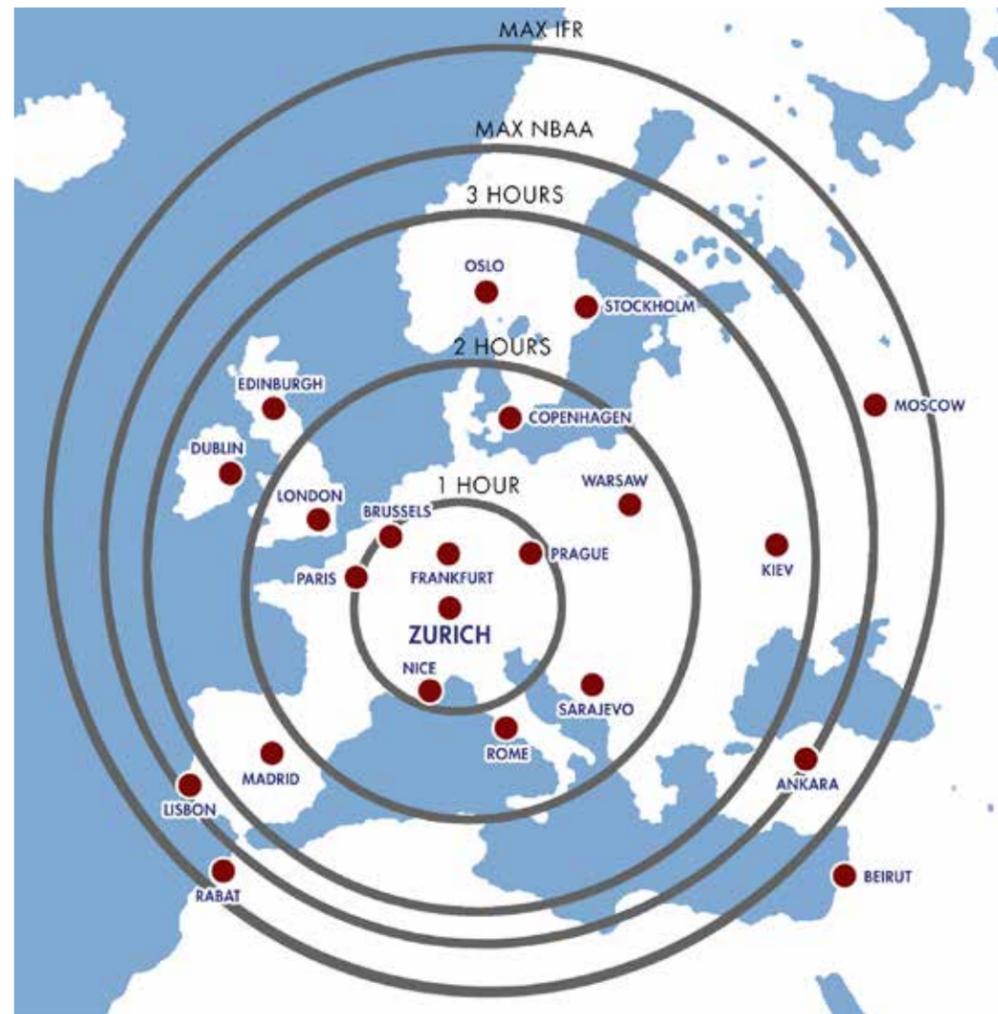
GREEN JET TODAY.

## BLUE SKIES TOMORROW.

Eclipse has always kept its eyes on the environmental impact of our aircraft. In fact, we've revolutionized two aspects of aviation: fire suppression systems and methods of construction. Our fire suppression system, PhostrEx, is the first non-Halon system approved by the FAA and EPA alike. Friction Stir Welding, a method of airframe construction first implemented by Eclipse, is a smoke-free method of bonding that is ten times faster than manual riveting, and yields a much stronger and lighter end product. This method of construction, combined with the revolutionary Pratt & Whitney 610F engines, make the Eclipse the most fuel-efficient twin-engine jet on the planet.

Range: 1,125 nm • Fuel Burn: 48-59 gal / hr • Direct operating cost: \$741.19 / hr

ECLIPSE 550 RANGE: ZURICH, GERMANY



*PhostrEx*  
EAI is the only jet manufacturer to replace the ozone depleting chemical Halon with a green alternative in our fire suppression system. PhostrEx is fast acting, reliable, and environmentally safe.



*Friction Stir Welding*  
FSW provides a continuous bond along the aluminum surfaces of the airframe, making the end product not only three times stronger than a traditional riveted bond, but lighter as well.



*Low CO<sub>2</sub> & Noise Pollution*  
Compared to all other twin-engine jets in the world, the Eclipse emits the least carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), and produces less engine noise and engine smoke.



*New Lightweight PPG Paint*  
PPG paint provides customers with weight savings for enhanced aircraft fuel efficiency, durability for extended service life, and outstanding gloss and color retention.

## LEADING THE AVIATION WORLD IN CUSTOMER SERVICE

Eclipse continues to open new Authorized Service Centers across the US and overseas in order to provide the highest level of customer service available in the industry. Currently there are two company-owned Platinum Service Centers located in Albuquerque, New Mexico, and Chicago, Illinois. We have also opened five Gold Service Centers, located in Boca Raton, Florida, San Diego, California, Istanbul, Turkey, Friedrichshafen, Germany, and Eelde, The Netherlands. In addition Eclipse has authorized service providers in Dubai, UAE, Johannesburg, South Africa, Campo Mourão, Brazil, and Santiago, Chile.



## LET YOUR JET DO THE TALKING

Eclipse was the first to build a data recorder based troubleshooting solution into the avionics of a light jet, introducing the Diagnostic Storage Unit (DSU) in 2007. This technology allows Eclipse Jet pilots, owners, and maintenance personnel to send an immense amount of recorded data to Eclipse in order for our engineers to analyze the health of the aircraft and to provide a maintenance solution if necessary. This makes problem solving with the Eclipse Jet incredibly quick. Simply attach a USB thumb drive to the Eclipse Jet DSU, download the data, and then upload to EAI via a web connection. Eclipse engineers can diagnose any issues remotely and direct the mechanic at your location to make any repairs necessary.

## NEED TO REACH AN EAI REPRESENTATIVE?

Email: [contact@eclipse.aero](mailto:contact@eclipse.aero)

Phone: 877.375.7978

Fax: 843.849.9298

Web: [www.ECLIPSE.aero](http://www.ECLIPSE.aero)



*Eclipse Authorized Service Centers around the globe*

# EXCELLENCE IN INNOVATION

It started as an exercise in innovation, a progressive idea that would transform aviation: let's build a jet that fits the budget and typical mission profiles of a larger audience of owners and pilots. Let's invent a new class of aircraft that is safe and efficient while still being extremely fast and comfortable. We pioneered a new field of aviation; we invented the personal jet.

The journey from idea to flying machine teemed with obstacles and our engineers looked upon them as opportunities for invention. At the end of the first decade, from blank piece of paper to a fully functional factory, there were over 275 Eclipse Jets in the sky, reshaping business travel and redefining business aviation.

Eclipse Aerospace is proud to bring you the Eclipse 550 Jet. Complete with the all new, fully integrated Avio Flight Management System with XM weather, Synthetic Vision, Enhanced Vision, Auto Throttles, a plush cabin with standard leather seating and superior insulation for a quiet, relaxing ride, and a range of 1,125 nautical miles, the Eclipse Jet is defined by safety, comfort, and convenience.

Fly away in your Eclipse 550 today.



*The first Eclipse 550 on its way to paint, surrounded by EAI's production staff, March 2013*

# ECLIPSE 550

## PERFORMANCE SPECS

### specifications

takeoff distance to 50 ft sea level, ISA to 50 ft (15 m) @ mgtow	2,433 FT	742 m
landing distance, sea level, isa @ 4,600 lbs (2,087 kg)	2,790 ft	850 m
rate of climb - 2 engines <sup>1</sup>	3,424 ft / min	1,044 m / min
rate of climb - 1 engine <sup>2</sup>	989 ft / min	301 m / min
time to climb - 35,000 ft (10,688 m)	22 min	22 min
takeoff at 5,000 ft (1,524 m) at ISA + 15 °C	3,881 ft	1,183 m
single engine takeoff climb at 5,000 ft (1,524 m) <sup>3</sup> at isa + 15 °C	705 ft / min	215 m / min
max cruise speed	375 kt	695 km / hr
V <sub>SO</sub>	69 kt	128 km / hr
V <sub>mca</sub> <sup>4</sup>	not applicable	
V <sub>mcg</sub> <sup>4</sup>	not applicable	
V <sub>mo</sub> / M <sub>mo</sub>	285 kt / 0.64 mach	528 km / hr / 0.64 mach
maximum altitude	41,000 ft	12,497 m
single engine service ceiling	23,100 ft	7,041 m
range - max NBAA IFR 100 nm alternate, 4 occupants, 200-lb (90-kg) pilot, three 170-lb (77-kg) passengers	1,125 nm	2,084 km
range - max IFR 45-minute reserve, 4 occupants, 200-lb (90-kg) pilot, three 170-lb (77-kg) passengers	1,300 nm	2,408 km

<sup>1</sup> Flaps up, gear up, sea level, isa, max takeoff power

<sup>2</sup> Flaps up, gear up, sea level, isa, max takeoff power + automatic power reserve

<sup>3</sup> Flaps up, gear up, max takeoff power + automatic reserve

<sup>4</sup> The VMC speeds of the Eclipse Jet do not exist because they are less than V<sub>SO</sub>

### exterior dimensions

length	33.5 ft	10.2 m
wingspan	37.9 ft	11.6 m
height	11.0 ft	3.4 m

### interior dimensions

length	148 in	376 cm
height (max)	50 in	127 cm
width (max)	56 in	142 cm

### weights

maximum ramp	6,034 lb	2,737 kg
maximum takeoff	6,000 lb	2,722 kg
maximum landing	5,600 lb	2,540 kg
empty	3,634 lb	1,648 kg
fuel capacity	1,698 lb / 251 gal	770 kg / 950 l
useful load	2,400 lb	1,089 kg

### engines

(2) Pratt & Whitney Canada	PW610F turbofans	
takeoff thrust at sea level isa + 15 °C	900 lbf (each)	4.00 kn (each)

### accommodations

seats	6 max
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### pressurizations

sea level cabin to	21,500 ft	6,533 m
cabin altitude at 41,000 ft	8,000 ft	2,438 m

# THE ECLIPSE 550 TWIN-ENGINE JET: **ELEGANT. EFFICIENT. FUN TO FLY.**

The Eclipse 550, the new production twin-engine jet from Eclipse Aerospace, features best in class performance, economics, and safety. With the ability to fly at altitudes up to 41,000 feet at a max cruise of 430 mph, all while consuming a mere 59 gallons of fuel per hour, the Eclipse 550 is the most efficient twin-engine jet on the planet. When you add to that safety features such as Auto Throttles, Anti-Skid Brakes, Synthetic Vision, and Enhanced Vision, you begin to understand that the Eclipse 550 will truly change the way the world looks at general aviation jet aircraft.



**ECLIPSE 550**™

[www.ECLIPSE.aero](http://www.ECLIPSE.aero)