



ECLIPSE AVIATION

Eclipse 500 Compared to Other Aircraft

PERFORMANCE													
	Eclipse 500	Cessna Mustang	Adam A700	Embraer Phenom 100	HondaJet	Diamond D-Jet	PiperJet	Beechcraft Baron G58	Piper Malibu Mirage	Adam A500	Piper Meridian	Beechcraft King Air C90GT	EADS Socata TBM 850
NBAA IFR Range w/4 Occupants	1,125 nm	1,150 nm	1,100 nm	1,160 nm	1,180 nm	1,250 nm	1,300 nm	932 nm	632 nm	1,050 nm	960 nm	831 nm	1,365 nm
IFR Range w/4 Occupants	1,300 nm	1,300 nm	1,200 nm	1,320 nm	1,280 nm	1,350 nm	1,400 nm	1,149 nm	732 nm	1,150 nm	1,060 nm	931 nm	1,465 nm
Max Cruise Speed	370 kt	340 kt	340 kt	380 kt	420 kt	315 kt	360 kt	202 kt	220 kt	230 kt	260 kt	270 kt	320 kt
Takeoff Distance, Sea Level, ISA	2,297 ft	3,110 ft	3,400 ft	3,400 ft	3,120 ft	2,372 ft	Not announced	2,300 ft	2,090 ft	2,471 ft	2,438 ft	2,392 ft	2,840 ft
Takeoff Distance (5,000 ft, ISA +15)	3,539 ft	Not announced	6,212 ft	Not announced	Not announced	Not announced	Not announced	4,200 ft	4,090 ft	Not announced	Data not available	Data not available	4,140 ft
Landing Distance	2,155 ft	3,390 ft	2,520 ft	3,000 ft	2,500 ft	Not announced	Not announced	1,300 ft	1,968 ft	2,471 ft	2,110 ft	2,355 ft	2,430 ft
Time to Climb to 35,000 ft	19 min	Not announced	21 min	Not announced	Not announced	Above max altitude	Not announced	Above max altitude	Above max altitude	Above max altitude	Above max altitude	Above max altitude	Above max altitude
All Engine Rate of Climb	3,314 fpm	Not announced	2,500 fpm	Not announced	3,990 fpm	2,600 fpm	Not announced	1,700 fpm	1,200 fpm	1,368 fpm	753 fpm	1,953 fpm	750 fpm
One Engine Inop. Rate of Climb	910 fpm	Not announced	850 fpm	Not announced	Not announced	Emergency landing	Emergency landing	390 fpm	Emergency landing	227 fpm	Emergency landing	474 fpm	Emergency landing
Max. Altitude	41,000 ft	41,000 ft	41,000 ft	41,000 ft	43,000 ft	25,000 ft	35,000 ft	20,688 ft	25,000 ft	25,000 ft	30,000 ft	30,000 ft	31,000 ft
One Engine Inop. Service Ceiling	25,000 ft	Not announced	29,000 ft	Not announced	Not announced	Emergency landing	Emergency landing	7,284 ft	Emergency landing	16,000 ft	Emergency landing	19,170 ft	Emergency landing

ENGINES													
	Eclipse 500	Cessna Mustang	Adam A700	Embraer Phenom 100	HondaJet	Diamond D-Jet	PiperJet	Beechcraft Baron G58	Piper Malibu Mirage	Adam A500	Piper Meridian	Beechcraft King Air C90GT	EADS Socata TBM 850
Engine Mfg	Pratt & Whitney Canada	Pratt & Whitney Canada	Williams International	Pratt & Whitney Canada	GE/Honda	Williams International	Williams International	Teledyne Continental	Lycoming	Teledyne Continental	Pratt & Whitney Canada	Pratt & Whitney Canada	Pratt & Whitney Canada
Model	PW610F	PW615F	FJ33-4A12	PW617F	HF-120	FJ33-4	FJ44-3A	IO-550-C	TIO-540-AE2A	TSIO 550	PT6A-42A	PT6A-135A	PT6A-67B
FADEC Controlled	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Not available	Not available	Not available	Not available	Not available	Not available
No. of Engines	2	2	2	2	2	1	2	2	1	2	1	2	1
Thrust per Engine	900 lbf	1,460 lbf	1,350 lbf	1,615 lbf	1,880 lbf	1,400 lbf	2,400 lbf	300 HP	350 HP	350 HP	500 shp	550 shp	850 shp
Flat Rating	ISA +15°C	ISA +10°C	ISA +7°C	Not announced	Not announced	ISA +7°C	Not announced	Not applicable	Not applicable	Not applicable	ISA +55°C	ISA +30°C	ISA +49°C
TBO	3,500 hrs	3,500 hrs	3,500 hrs	3,500 hrs	5,000 hrs	Not announced	Not announced	1,700 hrs	2,000 hrs	1,600 hrs	3,600 hrs	3,600 hrs	3,000 hrs

STANDARD AVIONICS													
	Eclipse 500	Cessna Mustang	Adam A700	Embraer Phenom 100	HondaJet	Diamond D-Jet	PiperJet	Beechcraft Baron G58	Piper Malibu Mirage	Adam A500	Piper Meridian	Beechcraft King Air C90GT	EADS Socata TBM 850
Full Aircraft Systems Integration	Avio	Not available	Not available	Not available	Not available	Not available	Not announced	Not available	Not available	Not available	Not available	Not available	Not available
Avionics Suite	Avio	Garmin G1000	Avidyne/Garmin	Prodigy (G1000)	Garmin G1000	Garmin G1000	Not announced	Garmin G1000	Avidyne/Garmin	Avidyne/Garmin	Avidyne/Garmin	Collins/Garmin	Collins/Garmin
PFID	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Not announced	Single - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Not available	Not available
Size	10.4 in	10.4 in	10.4 in	10.4 in	12.0 in	12.0 in	Not announced	10.0 in	12.0 in	10.4 in	10.4 in	10.4 in	Not available
MFD	Single - Standard	Single - Standard	Single - Standard	Single - Standard	Single - Standard	Single - Standard	Not announced	Single - Standard	Single - Standard	Single - Standard	Single - Standard	Not available	Not available
Size	14.1 in	15.0 in	10.4 in	12.0 in	12.0 in	15.0 in	Not announced	10.0 in	10.4 in	10.4 in	10.4 in	Not available	Not available
Intelligent CAS Messaging on MFD	Standard	Not available	Not available	Not available	Not available	Not available	Not announced	Not available	Not available	Not available	Not available	Not available	Not available
Systems Control and Synoptics on MFD	Standard	Not available	Not available	Not announced	Not available	Not announced	Not announced	Not available	Not available	Not available	Not available	Not available	Not available
Flight Management System	Standard	Standard	Standard	Standard	Standard	Standard	Not announced	Not available	Not available	Not available	Not available	Not available	Not available
GPS	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Not announced	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Single - Standard	Dual - Standard
Attitude Heading Reference System	Dual - Standard, Third Source Optional	Dual - Standard	Single - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Not announced	Dual - Standard	Dual - Standard	Dual - Standard	Dual - Standard	Single - Standard	Single - Standard
Integrated Digital Radios	Standard	Standard	Not available	Standard	Standard	Standard	Not announced	Standard	Not available	Not available	Not available	Not available	Not available
Performance Computer	Standard	Not announced	Not available	Not announced	Not announced	Not announced	Standard	Not available	Not available	Not available	Not available	Not available	Not available
Electronic Circuit Breakers	Standard	Not Available	Not available	Not announced	Not announced	Not announced	Not announced	Not available	Not available	Not available	Not available	Not available	Not available
Autothrottle	Standard	Not available	Not available	Not announced	Not announced	Not announced	Optional	Not available	Not available	Not available	Not available	Not available	Not available
Color Weather Radar	Standard	Standard	Optional (\$32,000)	Standard	Not announced	Not announced	Not announced	Standard	Standard	Optional (\$32,000)	Standard	Standard	Optional (\$30,000)
XM Satellite Weather System	Standard	Standard	Optional (\$8,000)	Standard	Not announced	Standard	Not announced	Optional	Optional (\$9,290)	Optional (\$8,000)	Optional (\$9,290)	Not available	Not available
RVSM	Standard - Group Certified	Standard	Standard	Standard	Standard	Standard	Operates below RVSM	Standard	Operates below RVSM	Operates below RVSM	Operates below RVSM	Operates below RVSM	Operates below RVSM

CABIN													
	Eclipse 500	Cessna Mustang	Adam A700	Embraer Phenom 100	HondaJet	Diamond D-Jet	PiperJet	Beechcraft Baron G58	Piper Malibu Mirage	Adam A500	Piper Meridian	Beechcraft King Air C90GT	EADS Socata TBM 850
Leg Room (between seats)	18.0 in	12.4 in	10.0 in	Not announced	14.7 in	Not announced	Not announced	10.8 in	13.2 in	10.0 in	13.2 in	7.5 in	20.4 in
Cabin Height at Seats	47 in	47 in	50.9 in	Not announced	51.6 in	Not announced	Not announced	46 in	41.6 in	50.9 in	37.2 in	51.6 in	45.6 in
Seats: Std / Max	5 / 6	6	7 / 8	6 / 8	7 / 8	5	6 / 7	6	6	6	6	7	7
Lavatory	Optional	Standard	Standard (7 seats only)	Standard (6 seats only)	Standard	Not available	Optional (6 seats only)	Not available	Not available	Not available	Not available	Standard	Not available
Cabin Altitude at Max Cert Altitude	8,000 ft	8,000 ft	8,000 ft	Not announced	8,000 ft	Not announced	8,000 ft	20,688 ft	8,000 ft	8,000 ft	10,625 ft	11,900 ft	9,500 ft
Pressurized Baggage Volume	16 cu ft	6 cu ft	0	5 cu ft	0	Not announced	Not announced	0	20 cu ft	0	20 cu ft	48 cu ft	24 cu ft
Unpressurized Baggage Volume	0	57 cu ft	25 cu ft	50 cu ft	66 cu ft	Not announced	Not announced	46 cu ft	13 cu ft	Not announced	0 cu ft	0 cu ft	3.5 cu ft

(1) Performance data collected from company marketing data, flight manuals, and May 2006 Business and Commercial Aviation Purchase Planning Handbook.
 (2) IFR Ranges estimated when information was unavailable.
 (3) Diamond D-Jet IFR range quoted with number of occupants unspecified. NBAA IFR range estimated.
 (4) Aircraft takeoff and landing distance based on 50 foot obstacle. Cessna Mustang & Adam A700 takeoff distance was given as Part 25 Takeoff Field Length, Diamond D-Jet takeoff distance quoted as ground roll only.
 (5) Leg room defined as distance between seats and calculated assuming all cabin seats are full. With club seating, each passenger allowance is one-half of total distance.
 (6) Cabin height at seats as measured from floor to headliner at seat.
 (7) Leg room and cabin height at seat derived from available drawings.