

SPECIFICATIONS

WEIGHTS

Model Maximum Ramp Maximum Takeoff Maximum Landing Maximum Zero Fuel Maximum Fuel - Volume Maximum Fuel - Veight Typical Empty (no crew) Basic Operating Weight (incl. crew, if applicable) Crew Useful Load (Ramp - BOW) Maximum Payload (ZFW or MLW - BOW) Full-Fuel Payload (Useful Load - Fuel)

ENGINE DATA

Models Manufacturer Model Type Fuel Type Engine Output - Sea Level Engine Flat Rating Temperature TBO Interval** Power Loading (MGTOW / total engine output) Bypass Ratio Prist Required (turbine powered aircraft) **Link to Citation Excel Eagle PowerAdantage Program

EXTERIOR DIMENSIONS

Models Overall - Length Overall - Height Overall - Wing Span Overall - Horizontal Stabilizer Span Cabin Door - Height, Front/Rear Cabin Door - Width, Top/Bottom Baggage Door - Height, Front/Rear Baggage Door - Width, Top/Bottom Emergency Exit - Height Emergency Exit - Width Citation Excel Eagle 20,200 lb 20,000 lb 18,700 lb 15,000 lb 1,006.0 gal 6,740 lb 12,425 lb 12,825 lb 2 Pilots 7,375 lb 2,175 lb 635 lb

Cessna Citation Excel Pratt & Whitney Canada PW545A Turbofan JetA 3,804 lb ISA + 13C 6,000 hr, 12,000 hr, 17,000 hr 2.63 lb/lb 4.00:1 No

Cessna Citation Excel 51 ft 10 in 17 ft 5 in 55 ft 8 in 21 ft 6 in 54.00 in / 54.00 in 24.00 in / 24.00 in 29.00 in / 25.00 in / 40.00 in 22.00 in

CABIN AND BAGGAGE

Models

Interior - Overall Length (bulkhead to bulkhead) Interior - Cabin Area (cockpit divider to rear bulkhead) Interior - Seating Area (cockpit divider to aft divider) Interior - Height Interior - Width Passenger Seats (standard to maximum) PSI Differential Sea Level Cabin to (altitude) Cabin Altitude at Certified Ceiling 8,000 foot cabin at (altitude) Baggage Capacity - Internal Weight Baggage Capacity - Internal Volume Baggage Capacity - External Weight Baggage Capacity - External Volume

CERTIFICATION

Models Certification Basis Approved Runway Surfaces Steep Approach Certified?

KEY DATES

Models

Announced First Flight FAA Certification First Delivery First Customer Delivery MSG-3 Issued

MODEL INFORMATION

Models Model N

Model Number Serial Numbers Production Status Years Produced Total Units Delivered

AVIONICS

Models Avionics Package

Cessna Citation Excel

24 ft 18 ft 6 in 15 ft 4 in 68.00 in 66.00 in 8 - 9 (9th seat optional) 9.30 psi 25,230 ft 6,800 ft 45,000 ft 84 lb 10.00 ft³ 700 lb 80.00 ft³

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Part 25 Hard, gravel Yes

Cessna Citation Excel

10/1/1994 2/29/1996 4/22/1998 7/2/1998 7/2/1998 1/31/2007

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560XL 560-5001 thru -5372 Model 560 lineage still in production 1998 – 2004 (lineage 2004 – present) 370 (lineage > 1,000)

Citation Excel Eagle Garmin G5000



AIRPORT PERFORMANCE

Models

Takeoff Field Length - Sea Level, ISA, MGTOW Takeoff Distance - 5,000 Feet, 25C - 5,000 Feet, 25C Weight Restriction Takeoff Distance Basis Landing Distance - Sea Level, ISA, MLW Landing Distance - Typical LW with Fuel Reserves - Typical LW with Fuel Reserves Max Takeoff and Landing Altitude

Cessna Citation Excel

3,650 ft 5,770 ft None BFL 3,180 ft 2,710 ft 14,900 lb 14,000 ft

CLIMB AND CEILING PERFORMANCE

Models Rate of Climb Direct Climb to Service Ceiling - All Engines Certified Ceiling

SPEEDS

Models MMO - Altitude Maximum Cruise Speed True Air Speed - Typical Cruise Speed True Air Speed - Cruise Speed Parameter

RANGE

Models Calculated Range Parameters

Passenger Weight **Power Setting** Average Cruise Speed Range - FullFuel, Max Takeoff Weight Range - 2 Passengers Range - 4 Passengers Range - 6 Passengers Range - 8 Passengers Advertised Range - Advertised Range Parameters

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3,790 ft/min FL430 in 21 min 44,000 ft 45,000 ft

Cessna Citation Excel 0.750 M Above 26,515 ft 432 kts 400 - 430 kts HSC

Cessna Citation Excel

NBAA IFR Reserve (100 nm), FL450, 2 Pilots, **HSC** Power 200 lb HSC LRC 0.642 M 0.7 M 1,863 nm 1.993 nm 1,875 nm 2,016 nm 1,770 nm 1,887 nm 1,609 nm 1,705 nm 1,449 nm 1,523 nm 1,836 nm NBAA IFR Fuel Reserves (100 nm), HSC, Max Fuel, Max Takeoff Weight



SPEED AT ALTITUDE

True Air Speed

Models Power Setting Mid-Cruise Weight 10,000 feet 16,000 feet 20,000 feet 26,000 feet 29,000 feet 31,000 feet 33,000 feet 35,000 feet 37,000 feet 39,000 feet 41,000 feet 43,000 feet 45,000 feet

TRIP TIME AND FUEL

Models	Cessna Citation Excel	
Parameters	NBAA IFR Reserve (100 nm), HSC Power 1,204 lb	
Reserve Fuel Amount		
Trip Distance	Time (hh:mm)	Block Fuel
	Flight Level (ft x 1,000)	
- 100 nm Trip	0:18 hr	681 lb
	@FL 160	
- 200 nm Trip	0:32 hr	1,125 lb
	@FL 260	
- 300 nm Trip	0:46 hr	1,444 lb
	@FL 330	
- 400 nm Trip	1:01 hr	1,602 lb
	@FL 400	
- 500 nm Trip	1:15 hr	1,878 lb
	@FL 410	
- 700 nm Trip	1:44 hr	2,485 lb
	@FL 410	
- 1000 nm Trip	2:27 hr	3,401 lb
	@FL 410	

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HSC

17,000 lb

353 kts

385 kts

408 kts

427 kts

428 kts

430 kts

432 kts

430 kts

427 kts

423 kts

418 kts

410 kts

395 kts

SUPPORT PROGRAMS

Click here to view our support programs.



STANDARD CABIN



EXTERIOR FRONT

Citation Excel Eagle





EXTERIOR SIDE











SYSTEM DESCRIPTION

FUEL SYSTEM

Cessna Citation Excel

Two integral wing tanks, one in each wing. Each tank holds approx. 503 gal of useable fuel (1,006 gal total). Each wing tank supplies its respective engine through use of a primary ejector pump in the sump component of the tank. Three additional transfer ejector pumps scavage fuel to the wing sump. An electric boost pump in each wing supplements primary ejector pump for backup, engine start, fuel transfer, and optional APU only operation.

Fully automatic. Crossfeed capability.

Standard single point pressure refueling/defueling, located on right side of the fuselage just forward of the wing. System is independent of the fuel system. Gravity fuel fill port on each wing.

Utilizes Electronic Engine Control (EEC) fuel controller. EEC is a single channel system with manual mode. Fuel is heated through an oil heat exchanger.

HYDRAULIC SYSTEM

Cessna Citation Excel

Single, open-center, 1500 psi hydraulic system operates landing gear, flaps, speed brakes, two-position horizontal tail, and thrust reversers. Circulates at 60 psi.

Hydraulic pressure supplied by two engine-driven pumps. Either pump has the capacity to power all systems.

An independent, closed-center, hydraulic system is used for wheel brakes. Powered by an electric pump in the left side of the nose compartment. Operates at 1,000 psi. Motor only runs when landing gear are in the down position.

FLIGHT CONTROL SYSTEM

Cessna Citation Excel

Ailerons, elevator and rudder are mechanically operated by use of cables. Rudder and aileron are interconnected .

The aileron, elevator and rudder have manual trimmed control surfaces. Aileron trim has one tab on left aileron. Elevator trim tabs on both elevators can be positioned mechanically or electrically. Rudder trim incorporates servo/trim tab for reducing pedal pressures. A rudder-aileron interconnect via torsion bungee coordinates roll and yaw inputs.

Two-position stabilizer with takeoff/landing setting or cruise setting. Operates automatically based upon flap setting and are hydraulically actuated.

Fowler type inboard and outboard actuated flaps are electrically controlled and hydraulically actuated with a range of 0 to 35 degrees down.

Speed brakes on upper and lower surfaces of each wing are electrically controlled and hydraulically actuated. Speed brakes can be extended to within 50 ft AGL.

Mechanical nose wheel steering through rudder pedals.

Rudder bias system increases rudder travel from 22 degrees to 28.5 degrees in the event of an engine failure. Utilizes engine bleed air to power a pneumatic actuator. Rudder bias and rudder bias heater must also be operational for dispatch.

Stick shaker stall warning system. Stick pusher not required.

Mechanically operated control lock engages, ailerons, elevators, rudder, and throttles.



ENVIRONMENTAL SYSTEM

Cessna Citation Excel

Uses bleed air for pressurization and air conditioning. Digital controller regulates two outflow values in aft pressure bulkhead. In auto mode, only set destination elevation. Controller has an auto-schedule for controlling pressure and rates of change - 600 fpm cabin climb rate and 500 fpm descent rate to fully depressurized by 1,500 ft. above landing altitude.

Emergency dump available for rapid depressurization. Emergency pressurization source from left engine directly into the cabin - no temperature control in that mode.

Single air cycle machine for cooling. Bleed air passes through pylon-mounted heat exchangers, then through a primary heat exchanger, then through the air cycle machine. Air outputted from ACM is routed through a water separator and then into the cool air overhead distribution system or mixed with hot bleed air and ducted through the floor and armrests distribution system. Two ozone converters filter engine bleed air prior to ACM.

Standard vapor cycle air conditioning system incorporates an aft cabin evaporator which supplies cool air through the overhead system and forward evaporator that blows cool air directly into the cabin through a floorboard grating. Operates up to 18,000 ft or on the ground by either a ground power cart or one operating engine.

Separate cabin and cockpit distribution systems/temperature zones controlled in cockpit. Optional cabin temperature control.

Honeywell RE100XL APU installation removes standard vapor cycle air conditioner. APU for ground cooling and inflight use. Can be started up to 20,000 ft and operated up to 30,000 ft. APU is not approved for unattended operation.

O2: 76 cu ft bottle standard.

1/02: 100% fresh air is delivered to the cabin.

ELECTRICAL SYSTEM

Cessna Citation Excel

Two, 28 volt DC, 300 ampere engine-driven starter-generators supply power through two buses that operate in parallel. (Starter-generators rated at 200 amps for ground operation.)

AC power from engine-driven alternators is used to power the electric windshield only. An AC inverter powers the electroluminescent panel lighting.

Standard 24 volt, 44 amp-hour nickel-cadmium battery housed in the LH aft fairing. External 28 volt DC power receptacle is located below the LH side below the engine pylon. APU supplies electrical power on the ground.

ICE AND RAIN SYSTEMS

Cessna Citation Excel

Engine bleed air for anti-ice protection on engine inlets and wing leading edges. Pneumatic boots for deice protection on horizontal stabilizer leading edge surfaces. Electrically heated windshields (AC power) for anti-ice and defog capabilities.

Electrical heating elements on pitot tubes, static ports, TAS probe, and angle of attack probe. Windshield rain removal accomplished with high speed air by electric fan in nose avionics compartment.



POWER PLANTS

Cessna Citation Excel

Two Pratt & Whitney PW545A two stage, turbofans. A centrifugal compressor is driven by a high pressure turbine. Single fan and axial compressors driven by three low pressure turbines. Combustion chamber is a reverse flow design.

Fuel control is through a single channel Electronic Engine Control (EEC) with manual mode. Throttle detents send signals to EEC in auto mode. Aircraft can be dispatched in manual mode. Engine Diagnostic System (EDS) provides for troubleshooting.

Engine equipped with ground idle system which automatically reduces idle speed eight seconds after landing gear squat switches have sensed a landing. Normal flight idle is 56.5%.

Target-type thrust reversers are standard (hydraulically operated). Engine synchronizer is standard. Equipped with fire detection loop (each engine) and two Freon fire extinguishing bottles (for both engines), electrically operated.

LANDING GEAR AND BRAKES

Cessna Citation Excel

Landing gear is electrically controlled and hydraulically actuated. Main gear are trailing-link design with single wheel assembly and air over oil struts. Held up by mechanical uplocks that are normally released hydraulically.

Nose wheel is mechanically steered by the rudder pedals.

Emergency extension through a manual release of the uplocks and gravity free-fall and through a pneumatic blow-down and lock system.

Brakes: Carbon disc brakes on main wheels operate through separate hydraulic system using an electric pump housed in the LH nose compartment. System operates only when gear are down.

Standard digital anti-skid system must be operational for takeoff.

Pneumatic back-up system with bottle on LH side of forward pressure bulkhead (same system used for emergency gear extension).

There is no turn-around time limitation on the brakes, other than an Ops Manual explanation that says "The parking brake should not be set if the brakes are very hot".

AVIONICS AND COCKPIT

Cessna Citation Excel

Garmin G5000 avionics system featuring a fully integrated glass flight deck, integrated autopilot and EICAS systems, dual touchscreen controllers, weather radar and Sirius/XM weather datalink, Garmin Flitecharts, Garmin Safe Taxi, and WAAS GPS-guided LPV approach capability to 200' minimums. Also includes RVSM and ADS-B compliance.

Standard equipment includes:

Standard Avionics Equipment

- Three GDU 1450W 14" displays (2 PFD and 1 MFD)
- Dual GCU 275 controllers
- GMC 700 dual autopilot
- GEA 7100 engine/airframe EICAS system
- Dual GIA 64E GPS/NAV/COM
- Dual GTX 3000 ADS-B transponders (ADS-B Out)
- Dual GTC 575 touchscreen controllers
- Dual GMA 36B audio panels



- GWX 75 radar with 12" antenna
- GDL 69A Sirius/XM weather datalink (subscription required)
- TAWS A
- Dual GRS 79 AHRS
- Dual GDC 7400 RVSM ADC

Additional Avionics and Standard Equipment

- Honeywell TCAS 2000
- Meggitt II standby ADI
- ATG 5000 Wi-Fi
- USB ports at each cockpit seat, at each forward club seat, at each forward-facing aft seat

No overhead or side switches, gages, or controls.

CABIN AND BAGGAGE SYSTEM

Cessna Citation Excel

Constant cross section with 11 windows and a 13 inch wide dropped aisle extends from cockpit divider to the aft bulkhead. 6,800 ft cabin at 45,000 ft.

Standard Interior: Eight individual passenger seats in a forward club configuration. Seats are pedestal mounted, track fore and aft 7 inches, laterally 3.6 inches, 360 degree swivel and infinite recline (fully berthable). Seats have a single, inboard, lift-type armrest (dual armrest an option).

Seat dimensions: 19'' seat cushion width (17.5'' with dual armrests), 20'' back cushion width. Side facing seat: width = 20'', seating depth = 14''.

LH & RH tables.

Aft LH belted, flushing toilet. Lav divider has sliding privacy doors with mirror treatment. Aft centerline closet. LH forward refreshment center - measures 23.7" wide.

Cockpit divider with 1/2 length curtain.

Up to 9 passenger seating arrangement including RH forward 2-place side-facing couch and belted seat in the aft Lav (9th seat optional). Cockpit sliding doors, various forward closets and refreshment centers, dual arm rests. Externally serviceable RH non-belted toilet. Entertainment systems

Baggage: Aft tailcone baggage compartment not heated nor pressurized. Aft baggage door sill height: 44".

AIRFRAME

Cessna Citation Excel

Eleven (11) boundary layer energizers on leading edge of each wing - all required for dispatch. Stall strip on leading edge of each wing.

Fifty two (52) vortex generators on top of wings. Up to 3 may be missing for dispatch provided the aircraft is limited to FL410.

Limitations: Anti-skid must be operational for takeoff. Rudder bias and rudder bias heating system must be operational.

Flaps are composite.

Outside fuselage diameter = 72.5 in.

