

BOMBARDIER Q400

FACT SHEET

bombardier q400 fact sheet The Bombardier Q400, also known as the Dash 8 Q400, is a prominent regional turboprop airliner renowned for its efficiency, reliability, and versatility. Developed by Bombardier Aerospace, the Q400 has become a popular choice among regional airlines worldwide, bridging the gap between smaller turboprops and larger regional jets. This fact sheet provides an in-depth overview of the aircraft's specifications, history, operational capabilities, and other key features, offering a comprehensive understanding of what makes the Q400 a significant player in the regional aircraft market.

Overview of the Bombardier Q400

Introduction and Development History

The Bombardier Q400 is a stretched version of the original Dash 8 series, specifically designed to offer higher speed and capacity. Its development began in the late 1990s as an evolution of the Dash 8 family, with the goal of providing a more efficient, faster regional aircraft that could compete with smaller regional jets. Key milestones in its development include: - Launch of the Dash 8 Series 400 in 1998 - First flight on August 19, 2000 - Certification received in December 2000 - Entry into service in 2000 with various regional carriers The aircraft was engineered to deliver improved performance attributes while maintaining the ruggedness and operational flexibility that made earlier Dash 8 models popular.

Design and Construction

Airframe and Dimensions

The Q400 features a high-wing, twin-turboprop design with a robust fuselage capable of accommodating up to 78 passengers in a typical configuration. Its construction emphasizes durability and ease of maintenance, with advanced aerodynamics to optimize performance. Key dimensions include: - Length: approximately 32.8 meters (107.6 feet) - Wingspan: 28.4 meters (93.3 feet) - Height: 8.6 meters (28.2 feet) - Wing area: 71.2 square meters (766 square feet) - Typical seating capacity: 74-78 passengers

Materials and Aerodynamics

The aircraft predominantly uses aluminum alloys for structural components, ensuring strength and weight efficiency. The high-wing design provides excellent visibility and ground clearance, which is advantageous for short runway operations. The aerodynamics are optimized for high-speed cruise and fuel efficiency, with features such as: - Winglets that reduce drag - Advanced wing design to improve lift-to-drag ratio - Streamlined fuselage for minimal air resistance

Powerplant and Performance

Engines

The Q400 is powered by two Pratt & Whitney Canada PW150A turboprop engines, renowned for their reliability and efficiency. These engines are capable of delivering significant power output with lower fuel consumption, which is vital for regional operations.

Engine specifications: - Power: 4,500 shaft horsepower (shp) per engine - Fuel consumption: approximately 1.2 gallons per nautical mile - Maximum operating altitude: 25,000 feet (7,620 meters)

Performance Metrics

The aircraft's performance figures highlight its suitability for regional routes: - Cruising speed: 360 knots (667 km/h) - Range: approximately 1,100 nautical miles (2,037 km) with typical payload - Service ceiling: 25,000 feet - Takeoff distance: around 4,700 feet (1,433 meters) at maximum weight - Landing distance: approximately 3,900 feet (1,189 meters) The combination of speed, range, and short-field performance makes the Q400 ideal for connecting secondary airports and serving routes with limited infrastructure.

Operational Capabilities

Passenger Experience and Cabin Features

The Q400 offers a spacious and comfortable cabin designed for regional travel, with features including: - Large windows for enhanced passenger visibility - Quiet cabin environment due to turboprop design innovations - Modern lighting and climate control systems - Configurable seating arrangements to suit airline preferences The aircraft's cabin typically features 2-2 seating in a standard configuration, providing comfort and ease of boarding.

Cargo and Utility

Apart from passenger operations, the Q400 is capable of carrying a substantial amount of cargo. Its main deck has a cargo door, allowing for quick loading and unloading, which is advantageous for freight and mail services. Cargo capacity: - Maximum payload: approximately 7,200 pounds (3,266 kg) - Cargo volume: 1,760 cubic feet (49.8 cubic meters)

Operational Flexibility

The Q400's capabilities extend to: - Short runway operations, including regional airports with limited infrastructure - High-altitude airports due to its high service ceiling - High dispatch reliability with a proven track record of operational uptime These features enable airlines to serve diverse markets efficiently.

Performance and Efficiency

Fuel Efficiency

The aircraft's turboprop engines are designed for optimal fuel economy, making it a cost-effective choice for operators. The Q400's fuel burn rate is approximately 3 gallons per mile, significantly lower than comparable regional jets, leading to lower operating costs.

Environmental Impact

The Q400's efficient engines produce lower emissions compared to older turboprop models and regional jets, aligning with environmental regulations and airline sustainability initiatives.

Maintenance and Reliability

Maintenance Intervals and Procedures

The aircraft benefits from: - Extended maintenance intervals, reducing downtime - Modular components for easier replacement - Extensive support network from Bombardier and authorized service providers

Reliability Record

The Q400 has demonstrated high dispatch reliability, with operators reporting average dispatch rates exceeding 99%. Its robust design and proven engine technology contribute to its reputation for dependability.

Variants and Upgrades

Variants of the Q400

While the standard Q400 remains the most common, several variants and special versions exist: - Q400 NextGen: equipped with modernized avionics, improved aerodynamics, and quieter engines - Q400 Freighter: configured for cargo operations - Special mission variants for surveillance, patrol, or military use

Technological Upgrades

Recent upgrades focus on: - Enhanced cockpit displays - Improved fuel efficiency - Noise reduction technologies These upgrades aim to extend the aircraft's operational lifespan and competitiveness.

Market and Operators

Global Presence

The Q400 is operated by numerous airlines and operators worldwide, including: - Regional carriers in North America, Europe, Asia, and Africa - Cargo operators - Military and government agencies Major operators include airlines such as Air Canada Express, Flybe, and IndiGo.

Fleet Size and Deployment

As of the latest data, there are over 400 Q400 aircraft in service, with a cumulative flying time exceeding several million flight hours. The aircraft is deployed on regional routes ranging from 200 to 1,000 miles and is favored for its operational flexibility.

Advantages and Disadvantages

Advantages

1. High speed for a turboprop, reducing flight times
2. Fuel-efficient and environmentally friendly
3. Short takeoff and landing capabilities
4. Comfortable passenger cabin with large windows
5. Proven reliability and low operating costs

Disadvantages

1. Limited passenger capacity compared to regional jets
2. Higher noise levels relative to jets, despite improvements

3. Dependence on turboprop engine maintenance expertise
4. Market competition from newer regional jet models

Future Outlook and Developments

Market Trends

The regional aircraft market continues to favor fuel efficiency and environmental sustainability, with the Q400 positioned well due to its low emissions and operational costs. However, competition from regional jets and emerging electric or hybrid aircraft may influence its market share.

Potential Upgrades and Next-Generation Models

Bombardier has explored various modernization options, including: - Upgraded avionics systems - Noise reduction technologies - Enhanced aerodynamics for better performance While the production of new Q400s has slowed, the aircraft remains a vital part of regional airline fleets, with ongoing support and maintenance.

Conclusion

The Bombardier Q400 stands out as a highly efficient, reliable, and versatile regional turboprop aircraft. Its combination of speed, capacity, and operational flexibility makes it a preferred choice for many airlines serving short to medium routes. Despite facing competition from newer regional jets, the Q400's proven track record, low operating costs, and passenger comfort continue to secure its place in the global aviation market. As the industry

evolves towards greener and more sustainable aircraft, the Q400's efficient turboprop technology positions it as a relevant and valuable asset for regional aviation well into the future.

Bombardier Q400 Fact Sheet: An In-Depth Analysis of the Turboprop Marvel

When discussing regional airliners that have redefined short-haul transportation, the Bombardier Q400 stands out as a true industry icon. Known for its impressive performance, fuel efficiency, and passenger comfort, the Bombardier Q400 has cemented itself as a favorite among regional airlines worldwide. This comprehensive fact sheet explores every aspect of this versatile aircraft, offering insights into its design, specifications, operational history, and future prospects.

Introduction to the Bombardier Q400

The Bombardier Q400, originally developed by Bombardier Aerospace (formerly de Havilland Canada), is a twin-engine turboprop aircraft designed for regional routes. It is part of the Dash 8 family, with the "Q" standing for "Quiet," reflecting its quieter operation compared to earlier turboprops. Since its first flight in 1992, the Q400 has become a mainstay in short-haul networks, combining speed, efficiency, and passenger comfort.

Historical Development and Evolution

Origins and Development Timeline

1. 1992: The initial prototype of the Dash 8 Q400 (then known as the Dash 8-400) took flight.
2. 2000: Entry into commercial service, marking the beginning of its operational legacy.
3. 2010s: Continued upgrades and improvements, including cockpit modernization and efficiency enhancements.

4. Recent Years: Transition of ownership from Bombardier to the newly formed De Havilland Aircraft of Canada, which continues to produce and support the aircraft.

Key Milestones

1. First Flight: June 1992
2. Certification: December 2000 by Transport Canada and FAA
3. Global Adoption: Operated by regional airlines across North America, Europe, Asia, Africa, and Oceania
4. Production Status: Still in production, with ongoing support and upgrades

Design and Technical Specifications

Airframe and Dimensions

1. Length: Approximately 29.3 meters (96 feet 2 inches)
2. Wingspan: About 25.8 meters (84 feet 9 inches)
3. Height: 8.4 meters (27 feet 7 inches)
4. Wing Area: 70.6 square meters (759 square feet)
5. Maximum Takeoff Weight (MTOW): 21,000 kg (46,297 lbs)

Performance Metrics

1. Maximum Speed: 667 km/h (414 mph; Mach 0.59)
2. Cruise Speed: 615 km/h (382 mph)
3. Range: Approximately 1,110 km (690 miles) with typical payload
4. Service Ceiling: 25,000 feet (7,620 meters)
5. Rate of Climb: 1,370 feet per minute (7 m/sec)

Powerplant and Propulsion

1. Engines: Two Pratt & Whitney Canada PW150A turboprops
2. Power Output: 4,200 shaft horsepower each
3. Propellers: Six-bladed, composite propellers designed for efficiency and quieter operation

Cabin and Passenger Capacity

1. Typical Seating: 74 to 78 passengers in a standard configuration
2. Maximum Seating Capacity: Up to 90 passengers with high-density seating
3. Cabin Features:
4. Large windows for passenger comfort
5. Modernized interiors with optional Wi-Fi connectivity
6. Spacious overhead compartments

Operational Features and Advantages

Fuel Efficiency and Economics

1. The Q400 is renowned for its excellent fuel economy compared to jet-powered regional aircraft, making it cost-effective for short routes.
2. Its turboprop engines consume less fuel per seat mile, reducing operating costs significantly.

Performance in Diverse Conditions

1. Capable of operating from shorter runways, expanding the range of airports accessible.
2. Robust performance in diverse weather conditions, including challenging winter environments.

Passenger Comfort and Noise Reduction

1. Equipped with advanced noise suppression technology, the Q400 offers a quieter cabin experience.
2. Generous cabin space with large windows enhances passenger comfort.
3. Optional in-flight entertainment and connectivity features improve passenger satisfaction.

Operational Footprint and Usage

Airlines and Operators

The Q400 is used by numerous regional and commuter airlines globally, including:

1. Air Canada Express
2. SpiceJet (India)
3. Flybe (UK)
4. Lufthansa CityLine
5. Air New Zealand
6. Many others across Africa, Asia, Europe, and the Americas

Typical Routes

1. Short-haul regional flights (100-500 miles)
2. Connects smaller airports to major hubs
3. Serves remote or less accessible destinations due to its short takeoff and landing capabilities

Maintenance and Reliability

1. Known for its durability and ease of maintenance.
2. Regularly serviced with a comprehensive support network.
3. Designed for high reliability, minimizing downtime and maximizing operational availability.

Upgrades and Variants

Variants and Configurations

1. Q400 NextGen: An upgraded version introduced in the 2010s, featuring:
2. Modernized cockpit with electronic flight instrument systems (EFIS)
3. Improved aerodynamics and fuel efficiency
4. Enhanced cabin features
5. Cargo Version: Designed for freight operations, with large cargo door and increased payload capacity.

6. Special Missions: Adapted for surveillance, maritime patrol, and other specialized roles.

Future Developments

While production has slowed, the aircraft remains relevant with ongoing upgrades, including avionics modernization and efficiency enhancements to meet evolving regulatory and operational demands.

Comparative Analysis

Q400 vs. Similar Aircraft

| Feature | Bombardier Q400 | ATR 72 | Embraer E175 |

||||

| Propulsion | Turboprop (PW150A) | Turboprop (PW100 series) | Jet (CF34) |

| Passenger Capacity | 74-78 | 70-78 | 76-88 |

| Range | ~1,110 km | ~1,065 km | ~2,000 km (longer) |

| Max Speed | 667 km/h | 510 km/h | 870 km/h |

| Operating Costs | Lower fuel and maintenance | Similar | Higher (jet fuel) |

Strengths and Limitations

Strengths:

1. Exceptional fuel economy
2. Ability to operate from shorter runways
3. Lower noise levels
4. Proven reliability and longevity

Limitations:

1. Slower speeds compared to regional jets
2. Limited cabin size for longer routes
3. Competition from newer regional jet models

The Future of the Bombardier Q400

Despite the rise of regional jets, the Q400's niche remains vital, especially for airports with short runways or limited jet service. Its operational flexibility and economic advantages ensure continued demand in regional markets.

The aircraft's future may include further upgrades in avionics, fuel efficiency, and passenger amenities, maintaining its competitiveness. Additionally, the transition of production to De Havilland Canada signals ongoing support and potential new variants.

Conclusion

The Bombardier Q400 fact sheet highlights an aircraft that combines efficiency, reliability, and passenger comfort to serve the critical needs of regional aviation. Its evolution from the original Dash 8 to the NextGen variants demonstrates a commitment to innovation and adaptability. As regional air travel continues to grow, the Q400 remains a key player, bridging communities and connecting remote destinations worldwide.

Whether you're an airline operator, aviation enthusiast, or industry analyst, understanding the detailed specifications, operational strengths, and future prospects of the Bombardier Q400 provides valuable insights into this turboprop powerhouse that continues to impress decades after its debut.

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Questions & Answers About bombardier q400 fact sheet

No	Question	Answer
1	What are the key specifications of the Bombardier Q400 aircraft?	The Bombardier Q400 is a turboprop regional airliner featuring a maximum cruising speed of approximately 360 knots (667 km/h), a range of about 1,100 nautical miles (2,037 km), and seating capacities typically between 70 and 78 passengers. It is known for its fuel efficiency and reliability in short to medium-haul routes.
2	When was the Bombardier Q400 first introduced into commercial service?	The Bombardier Q400, originally known as the Dash 8 Q400, was introduced into commercial service in 2000, marking a significant upgrade from earlier Dash 8 models with its modern turboprop engines and improved performance.

3	What are the main advantages of the Bombardier Q400 over regional jets?	The Q400 offers lower operating costs, excellent short-field performance, and better fuel efficiency for short routes. It also provides quieter operation, lower emissions, and the ability to operate from smaller airports, making it a cost-effective choice for regional airlines.
4	What is the typical passenger capacity of the Bombardier Q400?	The Bombardier Q400 typically seats between 70 and 78 passengers, depending on the configuration chosen by the airline, making it well-suited for regional and short-haul routes.
5	How fuel-efficient is the Bombardier Q400 compared to other regional aircraft?	The Q400 is highly fuel-efficient due to its advanced Pratt & Whitney Canada PW150A engines, offering better fuel economy per seat compared to similar regional jets and turboprops, which contributes to lower operational costs.
6	What are some recent upgrades or variants of the Bombardier Q400?	Recent developments include the Q400 NextGen variant, which features improved aerodynamics, upgraded Pratt & Whitney engines, redesigned wingtips for increased efficiency, and modernized avionics to enhance performance and passenger comfort.
7	What are the typical operating routes for the Bombardier Q400?	The Q400 is primarily used for regional and short-haul routes, often connecting smaller airports to major hubs, serving routes with distances up to around 1,100 nautical miles, especially where runway length and airport facilities are limited.
8	How environmentally friendly is the Bombardier Q400?	The Q400 is considered relatively environmentally friendly among regional aircraft due to its fuel efficiency, lower emissions, and quieter operation, aligning with airlines' sustainability goals.

9	What is the current status of the Bombardier Q400 in the global market?	While Bombardier sold its commercial aircraft program to Airbus in 2019, the Q400 remains popular among regional airlines worldwide, with ongoing support and upgrades available through Airbus's regional aircraft division, maintaining its relevance in regional aviation markets.
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Bombardier Q400, Dash 8 Q400, Q400 specifications, Q400 performance, Bombardier aircraft, regional turboprop, Q400 seating capacity, Q400 dimensions, Q400 engine details, Bombardier aircraft facts

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Many professionals rely on Bombardier Q400 Fact Sheet eBooks for skill development, ongoing education, and quick reference during real-world application.

Bombardier Q400 Fact Sheet eBooks are designed to deliver stable and dependable knowledge in a rapidly changing digital environment.

The digital nature of Bombardier Q400 Fact Sheet eBooks makes distribution fast and efficient, enabling instant access to updated information without the delays associated with print publishing.

Learners often revisit Bombardier Q400 Fact Sheet eBooks as reference materials.

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The adaptability of Bombardier Q400 Fact Sheet eBooks makes them suitable for beginners, intermediate learners, and advanced professionals alike.

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Bombardier Q400 Fact Sheet eBooks are designed to deliver stable and dependable knowledge in a rapidly changing digital environment.

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The adaptability of Bombardier Q400 Fact Sheet eBooks makes them suitable for beginners, intermediate learners, and advanced professionals alike.

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Compatibility Tips

Compatibility is a crucial factor when accessing and using Bombardier Q400 Fact Sheet in digital form. Ensuring that your device and software support the file format helps prevent reading issues, formatting errors, or loss of functionality. Fortunately, most modern devices are designed to handle common digital document formats with ease.

PDF is the most universally supported format for Bombardier Q400 Fact Sheet. Almost all computers, tablets, and smartphones can open PDF files using built-in viewers or free applications. This universal compatibility makes PDF an ideal choice for users who

access content across multiple devices or operating systems. PDFs also preserve layout and formatting, ensuring a consistent reading experience regardless of screen size.

ePub formats offer greater flexibility in text layout, allowing font size, spacing, and margins to adapt to different screens. However, ePub files may require specific readers or applications, especially on desktop computers. Many mobile devices and eReaders support ePub natively, while others may need additional software. Before downloading Bombardier Q400 Fact Sheet in ePub format, it is advisable to confirm reader compatibility to avoid conversion issues.

Audiobook formats provide an alternative way to consume Bombardier Q400 Fact Sheet, particularly for users who prefer listening over reading. Audiobooks can usually be played on standard media applications available on smartphones, tablets, and computers. Ensuring that the audio format is supported by your device guarantees smooth playback and uninterrupted listening sessions.

Keeping reading applications and operating systems up to date improves compatibility. Updates often include bug fixes, performance improvements, and support for newer file standards. Regular maintenance ensures that Bombardier Q400 Fact Sheet files open correctly and that advanced features such as annotations or interactive elements function as intended.

Optimizing compatibility across devices

For users who switch between multiple devices, synchronizing reading apps and cloud accounts enhances compatibility. Progress, bookmarks, and annotations can be shared seamlessly, creating a consistent experience. Choosing widely supported formats and reliable reading software reduces technical friction and improves

long-term usability.

Security Tips

Security is an essential consideration when downloading and managing Bombardier Q400 Fact Sheet files. Digital documents obtained from unreliable sources may pose risks such as malware, corrupted files, or unauthorized content. Prioritizing security protects both your devices and personal data.

Avoiding pirated files is one of the most effective security measures. Unauthorized copies often lack quality control and may contain hidden threats. Legal and reputable sources provide verified files that are safe to download and use. Respecting copyright also supports creators and publishers, contributing to a sustainable content ecosystem.

Before downloading Bombardier Q400 Fact Sheet, users should verify the credibility of the source. Official publishers, academic libraries, and well-known platforms typically provide secure downloads. Checking website reputation, reading user reviews, and confirming licensing information help reduce risks.

Using antivirus or security software adds an additional layer of protection. Scanning downloaded files ensures that potential threats are detected early. Many modern security tools operate in real time, monitoring downloads and alerting users to suspicious activity. Keeping antivirus software updated enhances effectiveness against emerging threats.

Safe handling of digital documents

In addition to secure downloading, safe handling practices further reduce risk. Avoid enabling macros or scripts in PDF files unless necessary and trusted. Be cautious with files that request excessive

permissions or prompt unexpected actions. These precautions help maintain device integrity and user privacy.

File Management

Effective file management ensures that your collection of Bombardier Q400 Fact Sheet remains organized, accessible, and easy to maintain. As digital libraries grow, poor organization can lead to confusion, duplicate files, and wasted time searching for documents.

Clear and consistent file naming is a fundamental aspect of file management. Including key details such as title, author, edition, or date in file names helps identify documents quickly. Consistency across all Bombardier Q400 Fact Sheet files prevents ambiguity and simplifies retrieval.

Using folders organized by topic, volume, subject, or date further improves clarity. For example, academic users may categorize files by course or discipline, while personal users may organize by interest or purpose. Logical folder structures make navigation intuitive and scalable as collections expand.

Tagging and labeling provide additional organizational flexibility. Many operating systems and cloud platforms support tags that allow files to be grouped across multiple categories. A single Bombardier Q400 Fact Sheet document can be tagged as reference, study material, or important, enabling faster searches without duplicating files.

Version control is particularly important when managing multiple editions or updates. Maintaining clear version identifiers prevents accidental use of outdated content. Archiving older versions separately ensures historical reference while keeping current

materials easily accessible.

Maintaining an efficient digital library

Regularly reviewing and cleaning your library helps maintain efficiency. Removing obsolete files, merging duplicates, and updating folder structures keep your Bombardier Q400 Fact Sheet collection streamlined. Periodic maintenance ensures that file management systems remain effective over time.

Archiving

Archiving Bombardier Q400 Fact Sheet files ensures long-term access and protects valuable information from loss. Digital documents can be vulnerable to accidental deletion, hardware failure, or software issues. Implementing reliable archiving strategies safeguards your collection for future use.

Cloud storage is a popular archiving solution due to its accessibility and automatic backup features. Storing Bombardier Q400 Fact Sheet files in reputable cloud services allows access from multiple devices while reducing the risk of data loss. Many platforms offer version history, enabling recovery of previous file states if needed.

External drives provide an additional layer of security for archiving. Storing backup copies on external hard drives or USB devices protects against cloud service disruptions or account issues. Keeping these drives in secure locations further enhances data protection.

A comprehensive archiving strategy often combines cloud and physical backups. Redundant storage ensures that Bombardier Q400 Fact Sheet remains accessible even if one storage method fails. Periodic verification of backup integrity confirms that archived files remain readable and complete.

Best practices for long-term archiving

- Use widely supported file formats such as PDF for longevity.
- Label archived files clearly with dates and version information.
- Maintain multiple backup locations.
- Review archives periodically to ensure accessibility.
- Update storage media as technology evolves.

Future-proofing your Bombardier Q400 Fact Sheet collection

Technology evolves over time, and file formats or storage methods may change. Choosing standard formats, maintaining backups, and staying informed about digital preservation practices help future-proof your Bombardier Q400 Fact Sheet collection. These steps ensure that documents remain usable and accessible for years to come.

Final thoughts on compatibility, security, and archiving

Managing Bombardier Q400 Fact Sheet effectively requires attention to compatibility, security, file organization, and archiving. By ensuring device support, downloading from trusted sources, organizing files systematically, and maintaining reliable backups, users can protect their digital libraries and maximize long-term value. These best practices create a safe, efficient, and sustainable environment for accessing and preserving Bombardier Q400 Fact Sheet in the digital age.