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Electronic Flight Bag Market Research Report - Global Forecast till 2030

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Description:

Global Electronic Flight Bag Market Overview

Electronic Flight Bag Market Size was valued at USD 1.5 billion in 2022. The Electronic Flight Bag market industry is projected to grow from USD 1.59 Billion in 2023 to USD 2.2 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 6.10% during the forecast period (2023 - 2030). Electronic Flight Bags (EFBs) have gained enormous popularity, especially after the advent of tablet devices, including the iPad, to keep up with rapid technological change. Advanced EFBs are known to perform complex flight planning tasks, display aircraft positions on nautical charts, and forecast real-time weather. The technology saves airlines money by reducing fuel and maintenance costs. These are the key market drivers enhancing the market growth.

Electronic Flight Bag Market Overview

Source Secondary Research, Primary Research, MRFR Database and Analyst Review

Electronic Flight Bag Market Trends

- Vendors focused on removing paper-based information is driving the market growth

Several aviation OEMs are primarily concerned with eliminating traditional paper-based information methods and systems, driving the growth of the electronic flight bag market. Vendors in this market are working with aircraft OEMs to understand their needs and develop reliable solutions. For example, in December 2020, Airbus announced removing all paper information, performance tables, diagrams and related information from the Flight Crew Operating Manual (FCOM). Likewise, in December 2021, Airbus removed all paper-based performance information from the Quick Reference Handbook (QRH) and Master Minimum Equipment List (MMEL) to fully establish EFB-based operations as the A320/A330/A340 family aircraft type standards.

Furthermore, the commercial aircraft segment is also expected to dominate the electronic flight bag market by 2022. This is due to the increase in the commercial aircraft fleet and deliveries resulting in an increasing demand for Electronic Flight Bag (EFB) solutions deployed on these aircraft. Almost all commercial aircraft use Electronic Flight Bags (EFBs) for their crew and cockpit operations. During the forecast period, growing commercial aircraft operations and upgrades will likely bring new market opportunities to market vendors.

The report segments the electronic flight bag market into components, applications, technologies, end users, and geographic regions. The electronic flight bag market is segmented into Hardware and software by component. The electronic flight bag market is segmented on application into electronic documents, charts, video surveillance, airport moving maps, and others. The electronic flight bag market is segmented on technology into portable and stationary. Based on end users, the market is segmented into commercial, military, and general aviation. The electronic flight bag market is geographically segmented into North America, Europe, Asia Pacific, South America, and Middle East & Africa. Thus, driving the Electronic Flight Bag market revenue.

Electronic Flight Bag Market Segment Insights

- Electronic Flight Bag Type Insights

Based on type, the Electronic Flight Bag market segmentation includes portable and installed. The portable segment dominated the market. This growth is attributed to the functionality and portability of the product. All portable electronic instruments, including EFBs, should be properly secured by aircraft mounts or knee pads during the takeoff and landing phases of flight. It must be determined that the potential for personal injury to the pilot and passengers is the most important consideration.

- Electronic Flight Bag Platform Insights

Based on the platform, the Electronic Flight Bag market segmentation includes commercial and military. The commercial category generated the most income from a large commercial aircraft fleet. The rising demand for air travel and improving economies are expected to fuel market growth.

Figure 1: Electronic Flight Bag Market, by Platform, 2022 & 2030 (USD billion)

Electronic Flight Bag Market, by Platform, 2022 & 2030

Source Secondary Research, Primary Research, MRFR Database and Analyst Review

- **Electronic Flight Bag Component Insights**

Based on components, the Electronic Flight Bag market data includes Hardware and software. The hardware segment will have the highest market revenue in 2022. E.B. hardware is any portable electronic display designed primarily for flight deck or nacelle use. F.B. devices can store and display a wide range of aviation data or perform simple calculations on fuel loading or aircraft performance. They provide additional information and must be stored for takeoff and landing. A Class 2 EFB system requires airworthiness clearance from the NAA. Even though it is considered a portable electronic device, it can only be removed from the aircraft through an entry in its technical logbook. It can exchange data with aircraft systems and connect to aircraft power and data link port, allowing it to be interactively evaluated for efficiency. Class 3 E.B. systems are installed aircraft components that require NAA Airworthiness Approval and a Supplemental Type Certificate or Certified Design Approval. A Positioning System (GPS) or FMS can be connected to the device. Depending on the model, it can correlate the GPS position with the position of other aircraft and velocity vectors and graphical climate information into a unified, accurate moving map display.

- **Electronic Flight Bag Regional Insights**

By Region, the study provides market insights into North America, Europe, Asia-Pacific and the Rest of the World. The North American electronic flight bag market area will dominate this market. The market in North America is expected to witness significant growth owing to the presence of several EFB manufacturers. The rapid expansion of aircraft manufacturing, technological advancements, and increased air traffic is also driving the EFB market in the Region.

Further, the major countries studied in the market report are The U.S., Canada, German, France, the U.K., Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: ELECTRONIC FLIGHT BAG MARKET SHARE BY REGION 2022 (%)

ELECTRONIC FLIGHT BAG MARKET SHARE BY REGION 2022

Source Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe's Electronic Flight Bag market accounts for the second-largest market share due to the rise in investments in the cockpit's advancement and increased demand for more accurate in-flight operation manuals. Further, the German Electronic Flight Bag market held the largest market share, and the U.K. Electronic Flight Bag market was the fastest growing market in the European Region

The Asia-Pacific Electronic Flight Bag Market is expected to grow at the fastest CAGR from 2023 to 2030 due to the rapid development of the aircraft industry. Moreover, increasing focus on fuel-efficient solutions and surging fleets in emerging countries such as China and India are expected to drive market growth in this Region. Moreover, increasing procurement of military aircraft in developing countries such as India is helping to drive market growth in the Region. Moreover, China's Electronic Flight Bag market held the largest market share, and the Indian Electronic Flight Bag market was the fastest-growing market in the Asia-Pacific region.

Electronic Flight Bag Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the Electronic Flight Bag market grow even more. Market participants are also undertaking various strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. The Electronic Flight Bag industry must offer cost-effective items to expand and survive in a more competitive and rising market climate.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturers use in the Electronic Flight Bag industry to benefit clients and increase the market sector. The Electronic Flight Bag industry has offered some of the most significant medical advantages in recent years. Major players in the Electronic Flight Bag market, including UTC Aerospace Systems (U.S.), L-3 Communications Holdings Inc (U.S.), Teledyne Controls LLC (U.S.), Thales Group (France), DAC International Inc(U.S.), Astronautics Corporation of America (U.S.), The Boeing Company (U.S.), Esterline CMC Electronics (Canada), Navarro AB (Sweden), Airbus Group S.E. (France), Lufthansa Systems (Germany), Flightman (Ireland), International Flight Support (Denmark), Rockwell Collins Inc (U.S.) and others, are attempting to increase market demand by investing in research and development operations.

Collins Aerospace is an American technology company and one of the world's largest suppliers of aerospace and defense products. Headquartered in Charlotte, North Carolina,[4] it is a subsidiary of Raytheon Technologies. In November 2021, Collins Aerospace, a division of Raytheon Technologies, acquired U.S. aircraft tracking software provider FlightAware for an undisclosed amount. FlightAware also provides predictive technology, analysis and decision-making tools. Upon completion of the acquisition, the company will join Connected Aviation Solutions, a company announced in August. The unit will promote Collins' connected ecosystem solutions.

Thales Group (French pronunciation [tales]) is a French multinational company that designs, develops and manufactures electrical systems as well as installations and equipment for the aerospace, defense, transport and security sectors. The company is headquartered in La Défense [4], the business district of Paris, and its shares are listed on Euronext Paris.

Key Companies in the Electronic Flight Bag market include

- UTC Aerospace Systems (U.S.)

- L-3 Communications Holdings Inc (U.S.)
- Teledyne Controls LLC (U.S.)
- Thales Group (France)
- DAC International Inc (U.S.)
- Astronautics Corporation of America (U.S.)
- The Boeing Company (U.S.)
- Esterline CMC Electronics (Canada)
- Navarro AB (Sweden)
- Airbus Group S.E. (France)
- Lufthansa Systems (Germany)
- Flightman (Ireland)
- International Flight Support (Denmark)
- Rockwell Collins Inc (U.S.)

Electronic Flight Bag Industry Developments

- **For Instance, February 2021** The country's flag carrier, Korean Air, agreed to adopt NAVBLUE's Electronic Flight Bag (EFB) solution, Flysmart+, on IOS devices to modernize and optimize pilot operations. Also, the most widely installed EFB on the ground, this cutting-edge system simplifies takeoff, landing, in-flight performance, documentation and eQRH procedures and offers multiple fuel-saving potentials. Korean Air will benefit from NAVBLUE's EFB solution to improve operational efficiency and optimize fleet performance calculations. Korean Air is already using ROPS+. Flysmart+ is used by more than 260 airlines, representing more than 6,000 Airbus aircraft service personnel.
- **For Instance, February 2021** Uganda's national airline signed a contract with IFS, a Copenhagen-based EFB software platform SaaS provider, to provide a paperless flight bag solution.
- **For Instance, November 2020** NAVBLUE signed a partnership agreement with Ultramain Systems to integrate the Ultramain Electronic Logbook (ELB) into NAVBLUE's Electronic Flight Bag (EFB) application.

Electronic Flight Bag Market Segmentation

Electronic Flight Bag Type Outlook

- Portable
- installed

Electronic Flight Bag Platform Outlook

- Commercial
- Military

Electronic Flight Bag Distribution Channel Outlook

- Hardware
- Software

Electronic Flight Bag Regional Outlook

- North America

- US
- Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

Contents	
1 Executive Summary	
1.1 Market Attractiveness Analysis	
1.1.1 Global Electronic Flight Bag Market, By Type	
1.1.2 Global Electronic Flight Bag Market, By Component	
1.1.3 Global Electronic Flight Bag Market, By Platform	
1.1.4 Global Electronic Flight Bag Market, By Region	
2 Market Introduction	
2.1 Definition	
2.2 Scope Of The Study	
2.3 Market Structure	
2.4 Key Buying Criteria	
3 Research Methodology	
3.1 Research Process	
3.2 Primary Research	
3.3 Secondary Research	
3.4 Market Size Estimation	
3.5 Top-Down And Bottom-Up Approaches	
3.6 Forecast Model	
3.7 List Of Assumptions	
4 Market Insights	
5 Market Dynamics	
5.1 Introduction	
5.2 Drivers	
5.2.1 Increase In Passenger Traffic	
5.2.2 Rise In Defense Expenditure And Demand For New Combat Aircraft	
5.2.3 Convenience Of Operation	
5.3 Restraints	
5.3.1 Risk Involved In Failure Of EFB Systems	
5.3.2 Need Of Additional Training For Operating The EFB	
5.4 Opportunity	
5.4.1 Rising Number Of Connected Aircraft	
5.4.2 EFB-Cloud-Based Fuel Efficiency Software Solution	
5.5 Technological Trends	
5.5.1 Compact And Robust EFBs	
5.5.2 Improved Connectivity And Efficiency	

- 5.5.3 Cloud-Based Fuel Efficiency Software Solution
- 5.5.4 EFB With Synthetic Vision Technology
- 5.6 Patent Analysis
- 5.7 Regulatory Landscape
- 6 Market Factor Analysis
 - 6.1 Porter's Five Forces Model
 - 6.1.1 Threat Of New Entrants
 - 6.1.2 Bargaining Power Of Suppliers
 - 6.1.3 Bargaining Power Of Buyers
 - 6.1.4 Threat Of Substitutes
 - 6.1.5 Intensity Of Rivalry
 - 6.2 Supply Chain
- 7 Global Electronic Flight Bag Market, By Type
 - 7.1 Overview
 - 7.2 Type: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 7.3 Portable
 - 7.3.1 Portable: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 7.3.2 Portable: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 7.3.3 Class 1: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 7.3.3.1 Class 1: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 7.3.3.2 Class 1: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 7.3.4 Class 2: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 7.3.4.1 Class 2: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 7.3.4.2 Class 2: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 7.5 Installed
 - 7.5.1 Installed: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 7.5.2 Installed: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
- 8 Global Electronic Flight Bag Market, By Component
 - 8.1 Overview
 - 8.2 Component: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.3 Hardware
 - 8.3.1 Hardware: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.3.2 Hardware: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.3 Class 1: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.3.1 Class 1: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.3.3.2 Class 1: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.4 Class 2: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.4.1 Class 2: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.3.4.2 Class 2: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.5 Class 3: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.3.5.1 Class 3: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.3.5.2 Class 3: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4 Software
 - 8.4.1 Software: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.4.2 Software: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.3 Class A: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.3.1 Class A: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.4.3.2 Class A: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.4 Class B: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.4.1 Class B: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.4.4.2 Class B: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.5 Class C: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 8.4.5.1 Class C: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 8.4.5.2 Class C: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
- 9 Global Electronic Flight Bag Market, By Platform
 - 9.1 Overview
 - 9.2 Platform: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 9.3 Commercial
 - 9.3.1 Commercial: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 9.3.2 Commercial: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 9.4 Military
 - 9.4.1 Military: Global Electronic Flight Bag Market, 2023-2030 (USD Million)
 - 9.4.2 Military: Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
- 10 Global Electronic Flight Bag Market, By Region
 - 10.1 Overview
 - 10.1.1 Global Electronic Flight Bag Market, By Region, 2023-2030 (USD Million)
 - 10.2 North America
 - 10.2.1 North America: Electronic Flight Bag Market, By Country, 2023-2030 (USD Million)
 - 10.2.2 North America: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.2.3 North America: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.2.4 North America: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.2.5 US
 - 10.2.5.1 US: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.2.5.2 US: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.2.5.3 US: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.2.6 Canada
 - 10.2.6.1 Canada: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.2.6.2 Canada: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.2.6.3 Canada: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.3 Europe
 - 10.3.1 Europe: Electronic Flight Bag Market, By Country, 2023-2030 (USD Million)
 - 10.3.2 Europe: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.3.3 Europe: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.3.4 Europe: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.3.5 UK
 - 10.3.5.1 UK: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.3.5.2 UK: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.3.5.3 UK: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.3.6 Germany
 - 10.3.6.1 Germany: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
 - 10.3.6.2 Germany: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
 - 10.3.6.3 Germany: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
 - 10.3.7 France

- 10.3.7.1 France: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.3.7.2 France: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.3.7.3 France: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.3.8 Italy
- 10.3.8.1 Italy: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.3.8.2 Italy: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.3.8.3 Italy: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.3.9 Rest Of Europe
- 10.3.9.1 Rest Of Europe: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.3.9.2 Rest Of Europe: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.3.9.3 Rest Of Europe: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4 Asia-Pacific
- 10.4.1 Asia-Pacific: Electronic Flight Bag Market, By Country, 2023-2030 (USD Million)
- 10.4.2 Asia-Pacific: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.3 Asia-Pacific: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.4 Asia-Pacific: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4.5 China
- 10.4.5.1 China: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.5.2 China: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.5.3 China: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4.6 India
- 10.4.6.1 India: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.6.2 India: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.6.3 India: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4.7 Japan
- 10.4.7.1 Japan: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.7.2 Japan: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.7.3 Japan: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4.8 Australia
- 10.4.8.1 Australia: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.8.2 Australia: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.8.3 Australia: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.4.9 Rest Of Asia-Pacific
- 10.4.9.1 Rest Of Asia-Pacific: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.4.9.2 Rest Of Asia-Pacific: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.4.9.3 Rest Of Asia-Pacific: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.5 Middle East & Africa
- 10.5.1 Middle East & Africa: Electronic Flight Bag Market, By Country, 2023-2030 (USD Million)
- 10.5.2 Middle East & Africa: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.5.3 Middle East & Africa: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.5.4 Middle East & Africa: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.5.5 Saudi Arabia
- 10.5.5.1 Saudi Arabia: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.5.5.2 Saudi Arabia: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.5.5.3 Saudi Arabia: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.5.6 UAE
- 10.5.6.1 UAE: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.5.6.2 UAE: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.5.6.3 UAE: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.5.7 Rest Of The Middle East & Africa
- 10.5.7.1 Rest Of The Middle East & Africa: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.5.7.2 Rest Of The Middle East & Africa: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.5.7.3 Rest Of The Middle East & Africa: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.6 Latin America
- 10.6.1 Latin America: Electronic Flight Bag Market, By Country, 2023-2030 (USD Million)
- 10.6.2 Latin America: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.6.3 Latin America: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.6.4 Latin America: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.6.5 Brazil
- 10.6.5.1 Brazil: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.6.5.2 Brazil: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.6.5.3 Brazil: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 10.6.6 Rest Of Latin America
- 10.6.6.1 Rest Of Latin America: Electronic Flight Bag Market, By Type, 2023-2030 (USD Million)
- 10.6.6.2 Rest Of Latin America: Electronic Flight Bag Market, By Component, 2023-2030 (USD Million)
- 10.6.6.3 Rest Of Latin America: Electronic Flight Bag Market, By Platform, 2023-2030 (USD Million)
- 11 Competitive Landscape
- 11.1 Competitive Overview
- 11.2 Competitor Dashboard
- 11.3 Major Growth Strategies In The Global Electronic Flight Bag Market
- 11.4 Competitive Benchmarking
- 11.5 Market Share Analysis
- 11.6 Leading Players In Terms Of Number Of Developments In The Global Electronic Flight Bag Market
- 11.7 Key Developments And Growth Strategies
- 11.7.1 Contracts And Agreements
- 11.7.2 Mergers And Acquisitions
- 11.7.3 Product Development
- 11.7.4 Expansions And Investments
- 11.7.5 Joint Ventures & Partnerships
- 12 Company Profiles
- 12.1 Airbus SAS
- 12.1.1 Company Overview
- 12.1.2 Financial Overview
- 12.1.3 Products/Services Offered
- 12.1.4 Key Developments
- 12.1.5 SWOT Analysis
- 12.1.6 Key Strategies
- 12.2 Astronautics Corporation Of America
- 12.2.1 Company Overview
- 12.2.2 Financial Overview
- 12.2.3 Products/Services Offered
- 12.2.4 Key Developments
- 12.2.5 SWOT Analysis

12.2.6 Key Strategies
12.3 The Boeing Company
12.3.1 Company Overview
12.3.2 Financial Overview
12.3.3 Products/Services Offered
12.3.4 Key Developments
12.3.5 SWOT Analysis
12.3.6 Key Strategies
12.4 DAC International, Inc.
12.4.1 Company Overview
12.4.2 Financial Overview
12.4.3 Products/Services Offered
12.4.4 Key Developments
12.4.5 SWOT Analysis
12.4.6 Key Strategies
12.5 Esterline Technologies Corporation
12.5.1 Company Overview
12.5.2 Financial Overview
12.5.3 Products/Services Offered
12.5.4 Key Developments
12.5.5 SWOT Analysis
12.5.6 Key Strategies
13 Other Prominent Players In The Market
13.1 Flightman
13.2 International Flight Support ApS
13.3 L3Harris Technologies Inc.
13.4 Lufthansa Systems
13.5 United Technologies Corporation
14 Appendix
14.1 References
14.2 List Of Abbreviation
15 List Of Tables
TABLE 1 LIST OF ASSUMPTIONS
TABLE 2 MAJOR PATENTS GRANTED FOR ELECTRONIC FLIGHT BAG (15 MAY 2010–15 MAY 2019)
TABLE 3 TYPE: GLOBAL ELECTRONIC FLIGHT BAG MARKET, 2023-2030 (USD MILLION)
TABLE 4 COMPONENT: GLOBAL ELECTRONIC FLIGHT BAG MARKET, 2023-2030 (USD MILLION)
TABLE 5 PLATFORM: GLOBAL ELECTRONIC FLIGHT BAG MARKET, 2023-2030 (USD MILLION)
TABLE 6 GLOBAL ELECTRONIC FLIGHT BAG MARKET, BY REGION, 2023-2030 (USD MILLION)
TABLE 7 NORTH AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY COUNTRY, 2023-2030 (USD MILLION)
TABLE 8 NORTH AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 9 NORTH AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 10 NORTH AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 11 US: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 12 US: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 13 US: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 14 CANADA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 15 CANADA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 16 CANADA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 17 EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY COUNTRY, 2023-2030 (USD MILLION)
TABLE 18 EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 19 EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 20 EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 21 UK: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 22 UK: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 23 UK: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 24 GERMANY: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 25 GERMANY: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 26 GERMANY: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 27 FRANCE: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 28 FRANCE: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 29 FRANCE: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 30 ITALY: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 31 ITALY: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 32 ITALY: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 33 REST OF EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 34 REST OF EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 35 REST OF EUROPE: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 36 ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY COUNTRY, 2023-2030 (USD MILLION)
TABLE 37 ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 38 ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 39 ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 40 CHINA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 41 CHINA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 42 CHINA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 43 INDIA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 44 INDIA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 45 INDIA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 46 JAPAN: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 47 JAPAN: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 48 JAPAN: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 49 AUSTRALIA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 50 AUSTRALIA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 51 AUSTRALIA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 52 REST OF ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 53 REST OF ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 54 REST OF ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 55 MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY COUNTRY, 2023-2030 (USD MILLION)
TABLE 56 MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 57 MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)

MILLION)
TABLE 58 MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 59 SAUDI ARABIA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 60 SAUDI ARABIA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 61 SAUDI ARABIA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 62 UAE: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 63 UAE: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 64 UAE: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 65 REST OF THE MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 66 REST OF THE MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 67 REST OF THE MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 68 LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY COUNTRY, 2023-2030 (USD MILLION)
TABLE 69 LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 70 LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 71 LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 72 BRAZIL: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 73 BRAZIL: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 74 BRAZIL: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 75 REST OF LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY TYPE, 2023-2030 (USD MILLION)
TABLE 76 REST OF LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY COMPONENT, 2023-2030 (USD MILLION)
TABLE 77 REST OF LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET, BY PLATFORM, 2023-2030 (USD MILLION)
TABLE 78 THE MOST ACTIVE PLAYERS IN THE GLOBAL ELECTRONIC FLIGHT BAG MARKET
TABLE 79 CONTRACTS AND AGREEMENTS
TABLE 80 MERGERS & ACQUISITIONS
TABLE 81 PRODUCT DEVELOPMENT
TABLE 82 EXPANSIONS AND INVESTMENTS
TABLE 83 JOINT VENTURES & PARTNERSHIPS
16 List Of Figures
FIGURE 1 MARKET SYNOPSIS
FIGURE 2 GLOBAL ELECTRONIC FLIGHT BAG MARKET: MARKET ATTRACTIVENESS ANALYSIS
FIGURE 3 GLOBAL ELECTRONIC FLIGHT BAG MARKET ANALYSIS, BY TYPE
FIGURE 4 GLOBAL ELECTRONIC FLIGHT BAG MARKET ANALYSIS, BY COMPONENT
FIGURE 5 GLOBAL ELECTRONIC FLIGHT BAG MARKET ANALYSIS, BY PLATFORM
FIGURE 6 GLOBAL ELECTRONIC FLIGHT BAG MARKET ANALYSIS, BY REGION
FIGURE 7 GLOBAL ELECTRONIC FLIGHT BAG MARKET: MARKET STRUCTURE
FIGURE 8 KEY BUYING CRITERIA FOR ELECTRONIC FLIGHT BAG TYPES
FIGURE 9 RESEARCH PROCESS OF MRFR
FIGURE 10 NORTH AMERICA: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2030
FIGURE 11 EUROPE: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2030
FIGURE 12 ASIA-PACIFIC: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2030
FIGURE 13 MIDDLE EAST & AFRICA: MARKET SIZE & MARKET SHARE, BY COUNTRY, 2023-2030
FIGURE 14 LATIN AMERICA: MARKET SIZE & MARKET SHARE, BY REGION, 2023-2030
FIGURE 15 MARKET DYNAMICS OVERVIEW
FIGURE 16 GROWTH IN MILITARY EXPENDITURE (1970–2017)
FIGURE 17 WORLD GROWTH TRADE, BY REGION, 2017
FIGURE 18 DRIVERS IMPACT ANALYSIS: GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 19 RESTRAINTS IMPACT ANALYSIS: GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 20 GLOBAL OCEAN CRUISE PASSENGERS (IN MILLIONS) 2009–2020
FIGURE 21 PORTER'S FIVE FORCES ANALYSIS OF THE GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 22 SUPPLY CHAIN: GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 23 GLOBAL ELECTRONIC FLIGHT BAG MARKET SHARE, BY TYPE, 2020 (% SHARE)
FIGURE 24 GLOBAL ELECTRONIC FLIGHT BAG MARKET SHARE, BY COMPONENT, 2020 (% SHARE)
FIGURE 25 GLOBAL ELECTRONIC FLIGHT BAG MARKET SHARE, BY PLATFORM, 2020 (% SHARE)
FIGURE 26 GLOBAL ELECTRONIC FLIGHT BAG MARKET SHARE, BY REGION, 2020 (% SHARE)
FIGURE 27 NORTH AMERICA: ELECTRONIC FLIGHT BAG MARKET SHARE, BY COUNTRY, 2020 (% SHARE)
FIGURE 28 EUROPE: ELECTRONIC FLIGHT BAG MARKET SHARE, BY COUNTRY, 2020 (% SHARE)
FIGURE 29 ASIA-PACIFIC: ELECTRONIC FLIGHT BAG MARKET SHARE, BY COUNTRY, 2020 (% SHARE)
FIGURE 30 MIDDLE EAST & AFRICA: ELECTRONIC FLIGHT BAG MARKET SHARE, BY COUNTRY, 2020 (% SHARE)
FIGURE 31 LATIN AMERICA: ELECTRONIC FLIGHT BAG MARKET SHARE, BY COUNTRY, 2020 (% SHARE)
FIGURE 32 COMPETITOR DASHBOARD: GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 33 CAPITAL MARKET RATIO AND FINANCIAL MATRIX
FIGURE 34 CONTRACTS & AGREEMENTS: THE MAJOR STRATEGY ADOPTED BY KEY PLAYERS IN THE GLOBAL ELECTRONIC FLIGHT BAG MARKET
FIGURE 35 BENCHMARKING OF MAJOR COMPETITORS
FIGURE 36 MAJOR MANUFACTURERS MARKET SHARE ANALYSIS, 2020