

# **Smart Container Market by Offering (Hardware, Software, Services), Vertical (Food & Beverages, Chemicals, Oil & Gas, Pharmaceuticals), Technology (GPS, Cellular, Bluetooth Low Energy, LoRaWAN) and Region - Global Forecast to 2027**

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## **Abstracts**

The smart container market is projected to grow from USD 3.9 billion in 2022 to USD 9.7 billion by 2027, at a CAGR of 19.6% during the forecast period. Increasing focus on end-to-end supply chain visibility, high demand for monitoring and control of internal container conditions, and increasing adoption of IoT devices by shipping companies are the key factors expected to drive the growth of the smart container market in the next five years. Lack of readiness against cyber security threats is expected to be the key restraint to the market's growth.

“Hardware segment to hold the highest market share”

One of the key elements in the smart containers are the hardware equipment such as connectivity devices, sensors, and telemetry and telematics devices that are extensively used for various applications ranging from sensing the environment to relaying data to a centralized database for further evaluation. For smart container hardware, accuracy, and reliability of monitoring several applications are critical parameters. Devices such as data loggers and gateways are used throughout the container movement for reliable connectivity and monitoring of temperature, pressure, and humidity within the container to maintain appropriate conditions for food, pharmaceuticals, chemicals, and other environment-sensitive products. Among all the hardware components, sensors are the most used electronic components in smart containers. As several parameters are monitored in containers, the number of hardware components installed is large. Additionally, the cost of these devices is high, resulting in the hardware segment to hold

the largest market share in the smart container market by offering.

“Pharmaceutical vertical to account for largest market share”

Pharmaceutical logistics is highly sensitive to time and quality assurances. Products in the pharmaceutical industry demand temperature-controlled storage and distribution, along with strict regulatory control. Pharmaceutical supply chains are very demanding as various shippers are required to maintain cold chain practices in addition to avoiding theft during transport. They also employ special provisions to move specialized pharmaceutical products. As a result, the industry aims to deliver critical products to customers in a secure manner and at a competitive operational cost. Smart containers have emerged as the most reliable and efficient form of shipping sensitive pharmaceutical products. Smart containers offer various benefits to the pharmaceutical industry such as improved adherence to pharmaceutical regulations; improved location tracking; near real-time temperature, humidity, and pressure monitoring; and heightened security. Owing to their benefits, the pharmaceutical industry is rapidly employing smart containers.

“North America to offer second-highest growth opportunities for smart container market during the forecast period”

North America is one of the key markets for smart containers. The region is the largest exporter of food and beverage products, which have a high demand for smart container solutions during transit. North America witnesses some of the highest technology adoption rates, leading to the faster implementation of new technologies such as those offered by smart containers. The presence of key players, such as ORBCOMM Inc. (US), Phillips Connect (US), Sealand – A Maersk Company (US), and ZillionSource Technologies (US), creates growth opportunities for the market in the region. As the competition increases, the number of market players is also expected to increase in the North American region.

While determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with key industry experts

The report profiles key players in the smart container market with their respective market ranking analyses. Prominent players profiled in this report include MSC (Switzerland), Globe tracker (Denmark), Traxens (France), Sealand – A Maersk Company (US), Berlinger & Co. AG (Switzerland), ZillionSource Technologies (US), and

Shenzhen CIMC Technology Co., Ltd. (China).

Smart containers are shipping containers used in the freight and logistics industry. They are integrated with Internet of Things (IoT) technology, sensors, GPS tracking, and telecommunication and telemetry devices. Such electronic equipment installed on the containers helps to collect near real-time data about several parameters such as temperature, humidity, pressure, light, and location inside the containers. Additionally, smart containers come with preinstalled software and services which provide data storage, data analysis, and fleet management, among others. With the help of these features, smart containers offer advanced security, reliability, tracking, and monitoring capabilities.

#### Research Coverage:

This research report categorizes the smart container market based on offering, technology, vertical, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the smart container market and forecasts the same till 2027. Apart from these, the report also consists of leadership mapping and analysis of all the companies in the smart container ecosystem.

#### Key Benefits of Buying the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall smart container market and its subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 INCLUSIONS AND EXCLUSIONS

#### 1.4 STUDY SCOPE

##### 1.4.1 MARKETS COVERED

#### FIGURE 1 SMART CONTAINER MARKET SEGMENTATION

##### 1.4.2 REGIONAL SCOPE

#### FIGURE 2 SMART CONTAINER MARKET, BY REGION

##### 1.4.3 YEARS CONSIDERED

#### 1.5 CURRENCY CONSIDERED

#### 1.6 LIMITATIONS

#### 1.7 STAKEHOLDERS

#### 1.8 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 3 SMART CONTAINER MARKET: PROCESS FLOW OF MARKET SIZE ESTIMATION

#### FIGURE 4 SMART CONTAINER MARKET: RESEARCH DESIGN

#### 2.2 SECONDARY AND PRIMARY RESEARCH

#### FIGURE 5 SMART CONTAINER MARKET: RESEARCH APPROACH

##### 2.2.1 SECONDARY DATA

###### 2.2.1.1 Major secondary sources

###### 2.2.1.2 Key data from secondary sources

##### 2.2.2 PRIMARY DATA

###### 2.2.2.1 Primary interviews with experts

###### 2.2.2.2 Breakdown of primaries

###### 2.2.2.3 Key data from primary sources

###### 2.2.2.4 Key industry insights

#### 2.3 MARKET SIZE ESTIMATION

##### 2.3.1 BOTTOM-UP APPROACH

###### 2.3.1.1 Approach to capture market size by bottom-up analysis (demand side)

#### FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

##### 2.3.2 TOP-DOWN APPROACH

2.3.2.1 Approach to capture market size by top-down analysis (supply side)

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 8 SMART CONTAINER MARKET: DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS AND LIMITATIONS

2.5.1 RESEARCH ASSUMPTIONS

FIGURE 9 ASSUMPTIONS FOR RESEARCH STUDY

2.5.2 LIMITATIONS

2.6 RISK ASSESSMENT

FIGURE 10 RISK ASSESSMENT

### **3 EXECUTIVE SUMMARY**

FIGURE 11 GPS TECHNOLOGY SEGMENT TO ACCOUNT FOR LARGEST SHARE OF SMART CONTAINER MARKET IN 2022

FIGURE 12 HARDWARE SEGMENT TO REGISTER HIGHEST CAGR IN SMART CONTAINER MARKET, BY OFFERING, FROM 2022 TO 2027

FIGURE 13 PHARMACEUTICALS VERTICAL TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD

FIGURE 14 SMART CONTAINER MARKET TO WITNESS FASTEST GROWTH IN ASIA PACIFIC DURING FORECAST PERIOD

### **4 PREMIUM INSIGHTS**

4.1 ATTRACTIVE OPPORTUNITIES FOR SMART CONTAINER MARKET PLAYERS

FIGURE 15 INCREASED DEMAND FROM COMMERCIAL AND RESIDENTIAL SECTORS TO BOOST DEMAND

4.2 SMART CONTAINER MARKET, BY OFFERING

FIGURE 16 HARDWARE OFFERING SEGMENT TO REGISTER HIGHEST MARKET SHARE IN 2022

4.3 SMART CONTAINER MARKET, BY VERTICAL AND REGION

FIGURE 17 FOOD AND BEVERAGES AND EUROPE ACCOUNTED FOR LARGEST SHARES OF SMART CONTAINER MARKET IN 2021

4.4 SMART CONTAINER MARKET, BY TECHNOLOGY

FIGURE 18 LORA WAN TECHNOLOGY SEGMENT TO WITNESS FASTEST GROWTH RATE DURING FORECAST PERIOD

4.5 SMART CONTAINER MARKET, BY GEOGRAPHY

FIGURE 19 GERMANY TO ACCOUNT FOR LARGEST SHARE OF SMART CONTAINER MARKET IN 2022

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

FIGURE 20 GROWTH IN LOGISTICS INDUSTRY TO BE GREAT OPPORTUNITY IN SMART CONTAINER MARKET

#### 5.2.1 DRIVERS

FIGURE 21 IMPACT OF DRIVERS ON SMART CONTAINER MARKET

5.2.1.1 Increased focus on End-to-End (E2E) supply chain visibility

5.2.1.2 Rise in demand for monitoring and controlling internal container conditions

5.2.1.3 Increased adoption of IoT devices by shipping companies

#### 5.2.2 RESTRAINTS

FIGURE 22 IMPACT OF RESTRAINTS ON SMART CONTAINER MARKET

5.2.2.1 Shipping industry ill-prepared for cyber-attacks

#### 5.2.3 OPPORTUNITIES

FIGURE 23 IMPACT OF OPPORTUNITIES ON SMART CONTAINER MARKET

5.2.3.1 Growth in logistics industry leading to increasing demand for containers

5.2.3.2 Emergence of advanced technologies

#### 5.2.4 CHALLENGES

FIGURE 24 IMPACT OF CHALLENGES ON SMART CONTAINER MARKET

5.2.4.1 Lack of interoperability among IoT devices and sensors

### 5.3 VALUE CHAIN ANALYSIS

FIGURE 25 VALUE CHAIN ANALYSIS OF SMART CONTAINER MARKET

### 5.4 ECOSYSTEM MAPPING

FIGURE 26 SMART CONTAINER ECOSYSTEM

TABLE 1 COMPANIES AND THEIR ROLES IN SMART CONTAINER ECOSYSTEM

### 5.5 PRICING ANALYSIS

5.5.1 AVERAGE SELLING PRICE OF IMPLEMENTATION TYPES, BY KEY PLAYER

FIGURE 27 AVERAGE SELLING PRICES OF KEY IOT HARDWARE PRODUCTS FOR SMART CONTAINER (USD)

5.5.1.1 Average selling price trend for IoT gateways

TABLE 2 AVERAGE SELLING PRICE TREND FOR IOT GATEWAY

5.5.1.2 Average selling price trend for data loggers

TABLE 3 AVERAGE SELLING PRICE TREND FOR DATA LOGGER

5.5.1.3 Average selling price trend for GPS trackers

TABLE 4 AVERAGE SELLING PRICE TRENDS FOR GPS TRACKERS

### 5.6 TREND ANALYSIS

#### 5.6.1 E-PLATFORMS

#### 5.6.2 IOT DEVICES

#### 5.6.3 BLOCKCHAIN

### 5.7 REVENUE SHIFT AND NEW REVENUE POCKETS FOR SMART CONTAINER MARKET

#### FIGURE 28 REVENUE SHIFT IN SMART CONTAINER MARKET

### 5.8 TECHNOLOGY ANALYSIS

#### 5.8.1 BLUETOOTH LOW ENERGY (BLE)

#### 5.8.2 INTERNET OF THINGS (IOT)

#### 5.8.3 BIG DATA

#### 5.8.4 LORA TECHNOLOGY

### 5.9 PORTER'S FIVE FORCES ANALYSIS

#### TABLE 5 PORTER'S FIVE FORCES IMPACT ON SMART CONTAINER MARKET

#### FIGURE 29 PORTER'S FIVE FORCES ANALYSIS: SMART CONTAINER MARKET

#### 5.9.1 THREAT OF NEW ENTRANTS

#### 5.9.2 THREAT OF SUBSTITUTES

#### 5.9.3 BARGAINING POWER OF SUPPLIERS

#### 5.9.4 BARGAINING POWER OF BUYERS

#### 5.9.5 DEGREE OF COMPETITION

### 5.10 KEY STAKEHOLDERS & BUYING CRITERIA

#### 5.10.1 KEY STAKEHOLDERS IN BUYING PROCESS

#### FIGURE 30 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USES

#### TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USES (%)

#### 5.10.2 BUYING CRITERIA

#### FIGURE 31 KEY BUYING CRITERIA FOR VERTICALS

#### TABLE 7 KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES

### 5.11 CASE STUDY

#### 5.11.1 USE CASE 1: CFL MULTIMODAL

#### 5.11.2 USE CASE 2: AXA XL

#### 5.11.3 USE CASE 3: HAPAG-LLOYD

#### 5.11.4 USE CASE 4: SWEETLIFE

### 5.12 TRADE ANALYSIS

#### 5.12.1 CONTAINERS

#### FIGURE 32 EXPORT DATA FOR CONTAINERS, 2017–2021 (USD MILLION)

#### FIGURE 33 IMPORT DATA FOR CONTAINERS, 2017–2021 (USD MILLION)

### 5.13 PATENT ANALYSIS

#### FIGURE 34 TOP COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS



FIGURE 35 NUMBER OF PATENTS GRANTED PER YEAR FROM 2012 TO 2021

TABLE 8 LIST OF TOP PATENT OWNERS IN LAST 10 YEARS

5.13.1 LIST OF MAJOR PATENTS

5.14 KEY CONFERENCES & EVENTS IN 2023–2024

TABLE 9 SMART CONTAINER MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.15 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS IN SMART CONTAINER MARKET

TABLE 10 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 APAC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15.2 STANDARDS AND REGULATIONS RELATED TO MARKET

5.15.2.1 North America

5.15.2.1.1 US

5.15.2.1.1.1 Safe Containers Convention Act - R.S.C., 1985, c. S-1

5.15.2.1.2 Radio standard for gateways on vessels

5.15.2.2 Europe

5.15.2.2.1 France

5.15.2.2.1.1 ISO 6346:2022(MAIN)

5.15.2.2.1.2 ISO 6346

5.15.2.2.1.3 ISO 9897:1997/Cor 1:2001

5.15.2.2.2 UK

5.15.2.2.2.1 ISO 20854:2019

5.15.2.2.2.2 ISO 10368:2006

5.15.2.2.3 Belgium

5.15.2.2.3.1 EPCIS & CBV

5.15.2.2.4 Germany

5.15.2.2.4.1 ISO 10374:1991

5.15.2.2.5 Switzerland

5.15.2.2.5.1 ISO 18185-1:2007

5.15.2.2.5.2 ISO 18186:2011

5.15.2.2.5.3 ISO/TS 18625:2017



## 6 SMART CONTAINER MARKET, BY OFFERING

### 6.1 INTRODUCTION

FIGURE 36 SMART CONTAINER MARKET, BY OFFERING

FIGURE 37 HARDWARE TO BE LARGEST OFFERING SEGMENT OF SMART CONTAINER MARKET DURING FORECAST PERIOD

TABLE 14 SMART CONTAINER MARKET, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 15 SMART CONTAINER MARKET, BY OFFERING, 2022–2027 (USD MILLION)

### 6.2 HARDWARE

TABLE 16 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2018–2021 (USD MILLION)

TABLE 17 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2022–2027 (USD MILLION)

TABLE 18 SMART CONTAINER MARKET FOR HARDWARE, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 19 SMART CONTAINER MARKET FOR HARDWARE, BY COMPONENT, 2022–2027 (USD MILLION)

#### 6.2.1 SENSORS

TABLE 20 SMART CONTAINER MARKET FOR SENSORS, BY SENSOR TYPE, 2018–2021 (USD MILLION)

TABLE 21 SMART CONTAINER MARKET FOR SENSORS, BY SENSOR TYPE, 2022–2027 (USD MILLION)

##### 6.2.1.1 Temperature sensors

6.2.1.1.1 Temperature sensors most widely used type of sensors

##### 6.2.1.2 Pressure sensors

6.2.1.2.1 Pressure sensors adopted in various applications across oil & gas, chemicals, and food & beverages verticals

##### 6.2.1.3 Humidity sensors

6.2.1.3.1 Humidity sensors subsegment to witness high growth

##### 6.2.1.4 Gas sensors

6.2.1.4.1 Gas sensors increasingly being adopted in oil & gas and chemicals verticals

##### 6.2.1.5 Other sensors

6.2.1.5.1 Other sensors include optical, magnetic, shock detection, leakage detection, and position sensors

TABLE 22 SMART CONTAINER MARKET FOR HARDWARE, BY REGION,

2018–2021 (USD MILLION)

TABLE 23 SMART CONTAINER MARKET FOR HARDWARE, BY REGION,  
2022–2027 (USD MILLION)

#### 6.2.2 CONNECTIVITY DEVICES

6.2.2.1 Connectivity devices to witness highest growth in smart container market for hardware

#### 6.2.3 TELEMATICS AND TELEMETRY DEVICES

6.2.3.1 Telematics and telemetry devices enable efficient logistics management

### 6.3 SOFTWARE

6.3.1 SMART CONTAINER MARKET FOR SOFTWARE TO WITNESS HIGHEST GROWTH IN ASIA PACIFIC

FIGURE 38 ASIA PACIFIC TO WITNESS HIGHEST GROWTH IN SMART CONTAINER MARKET FOR SOFTWARE DURING FORECAST PERIOD

TABLE 24 SMART CONTAINER MARKET FOR SOFTWARE, BY REGION, 2018–2021 (USD MILLION)

TABLE 25 SMART CONTAINER MARKET FOR SOFTWARE, BY REGION, 2022–2027 (USD MILLION)

### 6.4 SERVICES

6.4.1 EUROPE TO DOMINATE SMART CONTAINER SERVICES MARKET DURING FORECAST PERIOD

TABLE 26 SMART CONTAINER MARKET FOR SERVICES, BY REGION, 2018–2021 (USD MILLION)

TABLE 27 SMART CONTAINER MARKET FOR SERVICES, BY REGION, 2022–2027 (USD MILLION)

## 7 SMART CONTAINER MARKET, BY TECHNOLOGY

### 7.1 INTRODUCTION

FIGURE 39 SMART CONTAINER MARKET, BY TECHNOLOGY

FIGURE 40 LORA WAN TO GROW AT HIGHEST CAGR IN SMART CONTAINER MARKET DURING FORECAST PERIOD

TABLE 28 SMART CONTAINER MARKET, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 29 SMART CONTAINER MARKET, BY TECHNOLOGY, 2022–2027 (USD MILLION)

### 7.2 GLOBAL POSITIONING SYSTEM (GPS)

7.2.1 GPS TO HOLD MAJOR SHARE OF SMART CONTAINER TECHNOLOGY MARKET

### 7.3 CELLULAR

7.3.1 CELLULAR TECHNOLOGY EASIEST WAY TO DETECT AND DEFINE LOCATION OF CONTAINERS

7.4 LORA WAN (LONG RANGE WIDE AREA NETWORK)

7.4.1 LORA WAN CAN REACH SENSORS MONITORING ASSETS INSIDE CONTAINERS DUE TO ITS DEEP INDOOR PENETRATION FEATURE

7.5 BLUETOOTH LOW ENERGY (BLE)

7.5.1 BLE CONSIDERED FUTURE OF CONSUMER ENGAGEMENT IN SUPPLY CHAIN OPERATIONS

7.6 OTHERS

7.6.1 BENEFITS OFFERED BY ALTERNATIVE TECHNOLOGIES TO SLOW DOWN MARKET FOR WI-FI IN COMING YEARS

## **8 SMART CONTAINER MARKET, BY VERTICAL**

8.1 INTRODUCTION

FIGURE 41 SMART CONTAINER MARKET, BY VERTICAL

FIGURE 42 FOOD & BEVERAGES LARGEST SEGMENT OF SMART CONTAINER MARKET DURING FORECAST PERIOD

TABLE 30 SMART CONTAINER MARKET, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 31 SMART CONTAINER MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

8.2 FOOD & BEVERAGES

8.2.1 EUROPE TO HOLD MAJOR SHARE OF SMART CONTAINER MARKET FOR FOOD & BEVERAGES VERTICAL DURING FORECAST PERIOD

TABLE 32 SMART CONTAINER MARKET FOR FOOD & BEVERAGES, BY REGION, 2018–2021 (USD MILLION)

TABLE 33 SMART CONTAINER MARKET FOR FOOD & BEVERAGES, BY REGION, 2022–2027 (USD MILLION)

TABLE 34 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD THOUSAND)

TABLE 35 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD THOUSAND)

TABLE 36 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 37 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN EUROPE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 38 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ASIA PACIFIC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 39 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ASIA PACIFIC, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 40 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ROW, BY REGION, 2018–2021 (USD MILLION)

TABLE 41 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ROW, BY REGION, 2022–2027 (USD MILLION)

### 8.3 PHARMACEUTICALS

8.3.1 SMART CONTAINER MARKET FOR PHARMACEUTICALS VERTICAL TO WITNESS HIGHEST GROWTH IN ASIA PACIFIC DURING FORECAST PERIOD

TABLE 42 SMART CONTAINER MARKET FOR PHARMACEUTICALS, BY REGION, 2018–2021 (USD MILLION)

TABLE 43 SMART CONTAINER MARKET FOR PHARMACEUTICALS, BY REGION, 2022–2027 (USD MILLION)

TABLE 44 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 45 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 46 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 47 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN EUROPE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 48 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ASIA PACIFIC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 49 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ASIA PACIFIC, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 50 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ROW, BY REGION, 2018–2021 (USD MILLION)

TABLE 51 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ROW, BY REGION, 2022–2027 (USD MILLION)

### 8.4 OIL & GAS

8.4.1 US TO ACCOUNT FOR MAJOR SHARE OF NORTH AMERICAN SMART CONTAINER MARKET FOR OIL & GAS VERTICAL DURING FORECAST PERIOD

TABLE 52 SMART CONTAINER MARKET FOR OIL & GAS, BY REGION, 2018–2021 (USD MILLION)

TABLE 53 SMART CONTAINER MARKET FOR OIL & GAS, BY REGION, 2022–2027 (USD MILLION)

TABLE 54 SMART CONTAINER MARKET FOR OIL & GAS IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 55 SMART CONTAINER MARKET FOR OIL & GAS IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 56 SMART CONTAINER MARKET FOR OIL & GAS IN EUROPE, BY

COUNTRY, 2018–2021 (USD MILLION)

TABLE 57 SMART CONTAINER MARKET FOR OIL & GAS IN EUROPE, BY  
COUNTRY, 2022–2027 (USD MILLION)

TABLE 58 SMART CONTAINER MARKET FOR OIL & GAS IN ASIA PACIFIC, BY  
COUNTRY, 2018–2021 (USD MILLION)

TABLE 59 SMART CONTAINER MARKET FOR OIL & GAS IN ASIA PACIFIC, BY  
COUNTRY, 2022–2027 (USD MILLION)

TABLE 60 SMART CONTAINER MARKET FOR OIL & GAS IN ROW, BY REGION,  
2018–2021 (USD MILLION)

TABLE 61 SMART CONTAINER MARKET FOR OIL & GAS IN ROW, BY REGION,  
2022–2027 (USD MILLION)

## 8.5 CHEMICALS

8.5.1 INCREASED TRADE OF CHEMICAL PRODUCTS IN ASIA PACIFIC TO DRIVE  
MARKET GROWTH

TABLE 62 SMART CONTAINER MARKET FOR CHEMICALS, BY REGION,  
2018–2021 (USD MILLION)

TABLE 63 SMART CONTAINER MARKET FOR CHEMICALS, BY REGION,  
2022–2027 (USD MILLION)

TABLE 64 SMART CONTAINER MARKET FOR CHEMICALS IN NORTH AMERICA,  
BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 65 SMART CONTAINER MARKET FOR CHEMICALS IN NORTH AMERICA,  
BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 66 SMART CONTAINER MARKET FOR CHEMICALS IN EUROPE, BY  
COUNTRY, 2018–2021 (USD MILLION)

TABLE 67 SMART CONTAINER MARKET FOR CHEMICALS IN EUROPE, BY  
COUNTRY, 2022–2027 (USD MILLION)

TABLE 68 SMART CONTAINER MARKET FOR CHEMICALS IN ASIA PACIFIC, BY  
COUNTRY, 2018–2021 (USD MILLION)

TABLE 69 SMART CONTAINER MARKET FOR CHEMICALS IN ASIA PACIFIC, BY  
COUNTRY, 2022–2027 (USD MILLION)

TABLE 70 SMART CONTAINER MARKET FOR CHEMICALS IN ROW, BY REGION,  
2018–2021 (USD MILLION)

TABLE 71 SMART CONTAINER MARKET FOR CHEMICALS IN ROW, BY REGION,  
2022–2027 (USD MILLION)

## 8.6 OTHERS

8.6.1 RISE IN DEMAND FOR EFFICIENT TRANSPORTATION OF SENSITIVE  
MATERIALS TO DRIVE MARKET IN DEFENSE AND MINING SECTOR

TABLE 72 SMART CONTAINER MARKET FOR OTHER VERTICALS, BY REGION,  
2018–2021 (USD MILLION)

TABLE 73 SMART CONTAINER MARKET FOR OTHER VERTICALS, BY REGION, 2022–2027 (USD MILLION)

TABLE 74 SMART CONTAINER MARKET FOR OTHER VERTICALS IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 75 SMART CONTAINER MARKET FOR OTHER VERTICALS IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 76 SMART CONTAINER MARKET FOR OTHER VERTICALS IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 77 SMART CONTAINER MARKET FOR OTHER VERTICALS IN EUROPE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 78 SMART CONTAINER MARKET FOR OTHER VERTICALS IN APAC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 79 SMART CONTAINER MARKET FOR OTHER VERTICALS IN APAC, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 80 SMART CONTAINER MARKET FOR OTHER VERTICALS IN ROW, BY REGION, 2018–2021 (USD MILLION)

TABLE 81 SMART CONTAINER MARKET FOR OTHER VERTICALS IN ROW, BY REGION, 2022–2027 (USD MILLION)

## **9 GEOGRAPHIC ANALYSIS**

### **9.1 INTRODUCTION**

FIGURE 43 GEOGRAPHIC SNAPSHOT: RAPIDLY GROWING ECONOMIES, SUCH AS INDIA, CHINA, AND MEXICO EMERGING AS NEW POTENTIAL MARKETS

FIGURE 44 SMART CONTAINER MARKET, BY REGION

TABLE 82 SMART CONTAINER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 83 SMART CONTAINER MARKET, BY REGION, 2022–2027 (USD MILLION)

### **9.2 NORTH AMERICA**

FIGURE 45 NORTH AMERICA SMART CONTAINER MARKET, BY COUNTRY

FIGURE 46 US LED SMART CONTAINER MARKET IN NORTH AMERICA IN 2021

FIGURE 47 NORTH AMERICA: SMART CONTAINER MARKET SNAPSHOT (2021)

TABLE 84 SMART CONTAINER MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 85 SMART CONTAINER MARKET IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 86 SMART CONTAINER MARKET IN NORTH AMERICA, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 87 SMART CONTAINER MARKET IN NORTH AMERICA, BY VERTICAL, 2022–2027 (USD MILLION)



TABLE 88 SMART CONTAINER MARKET IN NORTH AMERICA, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 89 SMART CONTAINER MARKET IN NORTH AMERICA, BY OFFERING, 2022–2027 (USD MILLION)

#### 9.2.1 US

9.2.1.1 US accounted for major share of North American smart container market

TABLE 90 SMART CONTAINER MARKET IN US, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 91 SMART CONTAINER MARKET FOR IN US, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 92 SMART CONTAINER MARKET IN US, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 93 SMART CONTAINER MARKET FOR IN US, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.2.2 CANADA

9.2.2.1 Increased activities in agriculture and food export to drive market growth

TABLE 94 SMART CONTAINER MARKET IN CANADA, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 95 SMART CONTAINER MARKET FOR IN CANADA, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 96 SMART CONTAINER MARKET IN CANADA, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 97 SMART CONTAINER MARKET FOR IN CANADA, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.2.3 MEXICO

9.2.3.1 Smart container market in Mexico to grow at highest CAGR

TABLE 98 SMART CONTAINER MARKET IN MEXICO, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 99 SMART CONTAINER MARKET FOR IN MEXICO, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 100 SMART CONTAINER MARKET IN MEXICO, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 101 SMART CONTAINER MARKET FOR IN MEXICO, BY VERTICAL, 2022–2027 (USD MILLION)

### 9.3 EUROPE

FIGURE 48 EUROPE SMART CONTAINER MARKET, BY COUNTRY

FIGURE 49 EUROPE: SMART CONTAINER MARKET SNAPSHOT (2021)

TABLE 102 SMART CONTAINER MARKET IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)



TABLE 103 SMART CONTAINER MARKET IN EUROPE, BY COUNTRY, 2022–2027  
(USD MILLION)

TABLE 104 SMART CONTAINER MARKET IN EUROPE, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 105 SMART CONTAINER MARKET IN EUROPE, BY VERTICAL, 2022–2027  
(USD MILLION)

TABLE 106 SMART CONTAINER MARKET IN EUROPE, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 107 SMART CONTAINER MARKET IN EUROPE, BY OFFERING, 2022–2027  
(USD MILLION)

### 9.3.1 GERMANY

9.3.1.1 Increased trade activities in regional food & beverages industry to drive market

TABLE 108 SMART CONTAINER MARKET IN GERMANY, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 109 SMART CONTAINER MARKET FOR IN GERMANY, BY OFFERING,  
2022–2027 (USD MILLION)

TABLE 110 SMART CONTAINER MARKET IN GERMANY, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 111 SMART CONTAINER MARKET FOR IN GERMANY, BY VERTICAL,  
2022–2027 (USD MILLION)

### 9.3.2 FRANCE

9.3.2.1 Chemicals and pharmaceuticals verticals to create demand for smart containers

TABLE 112 SMART CONTAINER MARKET IN FRANCE, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 113 SMART CONTAINER MARKET FOR IN FRANCE, BY OFFERING,  
2022–2027 (USD MILLION)

TABLE 114 SMART CONTAINER MARKET IN FRANCE, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 115 SMART CONTAINER MARKET FOR IN FRANCE, BY VERTICAL,  
2022–2027 (USD MILLION)

### 9.3.3 UK

9.3.3.1 High demand for smart container solutions in food & beverages vertical to drive market growth

TABLE 116 SMART CONTAINER MARKET IN UK, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 117 SMART CONTAINER MARKET FOR IN UK, BY OFFERING, 2022–2027  
(USD MILLION)

TABLE 118 SMART CONTAINER MARKET IN UK, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 119 SMART CONTAINER MARKET FOR IN UK, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.3.4 ITALY

9.3.4.1 Rapid rise in export of chemicals to drive demand

TABLE 120 SMART CONTAINER MARKET IN ITALY, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 121 SMART CONTAINER MARKET FOR IN ITALY, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 122 SMART CONTAINER MARKET IN ITALY, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 123 SMART CONTAINER MARKET FOR IN ITALY, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.3.5 REST OF EUROPE

9.3.5.1 Rest of Europe to witness high growth in smart container adoption

TABLE 124 SMART CONTAINER MARKET IN REST OF EUROPE, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 125 SMART CONTAINER MARKET FOR IN REST OF EUROPE, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 126 SMART CONTAINER MARKET IN REST OF EUROPE, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 127 SMART CONTAINER MARKET FOR IN REST OF EUROPE, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.4 ASIA PACIFIC

FIGURE 50 ASIA PACIFIC SMART CONTAINER MARKET, BY COUNTRY

FIGURE 51 ASIA PACIFIC: SMART CONTAINER MARKET SNAPSHOT (2021)

TABLE 128 SMART CONTAINER MARKET IN ASIA PACIFIC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 129 SMART CONTAINER MARKET IN ASIA PACIFIC, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 130 SMART CONTAINER MARKET IN ASIA PACIFIC, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 131 SMART CONTAINER MARKET IN ASIA PACIFIC, BY VERTICAL, 2022–2027 (USD MILLION)

TABLE 132 SMART CONTAINER MARKET IN ASIA PACIFIC, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 133 SMART CONTAINER MARKET IN ASIA PACIFIC, BY OFFERING, 2022–2027 (USD MILLION)

#### 9.4.1 CHINA

##### 9.4.1.1 Proliferation of trade practices to drive market growth

TABLE 134 SMART CONTAINER MARKET IN CHINA, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 135 SMART CONTAINER MARKET FOR IN CHINA, BY OFFERING,  
2022–2027 (USD MILLION)

TABLE 136 SMART CONTAINER MARKET IN CHINA, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 137 SMART CONTAINER MARKET FOR IN CHINA, BY VERTICAL,  
2022–2027 (USD MILLION)

#### 9.4.2 JAPAN

##### 9.4.2.1 Smart container market for oil & gas vertical in Japan to witness rapid growth

TABLE 138 SMART CONTAINER MARKET IN JAPAN, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 139 SMART CONTAINER MARKET FOR IN JAPAN, BY OFFERING,  
2022–2027 (USD MILLION)

TABLE 140 SMART CONTAINER MARKET IN JAPAN, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 141 SMART CONTAINER MARKET FOR IN JAPAN, BY VERTICAL,  
2022–2027 (USD MILLION)

#### 9.4.3 INDIA

##### 9.4.3.1 Rise in trade activities in pharmaceuticals sector to drive market growth

TABLE 142 SMART CONTAINER MARKET IN INDIA, BY OFFERING, 2018–2021  
(USD MILLION)

TABLE 143 SMART CONTAINER MARKET FOR IN INDIA, BY OFFERING, 2022–2027  
(USD MILLION)

TABLE 144 SMART CONTAINER MARKET IN INDIA, BY VERTICAL, 2018–2021  
(USD MILLION)

TABLE 145 SMART CONTAINER MARKET FOR IN INDIA, BY VERTICAL, 2022–2027  
(USD MILLION)

#### 9.4.4 AUSTRALIA

##### 9.4.4.1 Food & beverages vertical to provide growth opportunities for market

TABLE 146 SMART CONTAINER MARKET IN AUSTRALIA, BY OFFERING,  
2018–2021 (USD MILLION)

TABLE 147 SMART CONTAINER MARKET FOR IN AUSTRALIA, BY OFFERING,  
2022–2027 (USD MILLION)

TABLE 148 SMART CONTAINER MARKET IN AUSTRALIA, BY VERTICAL,  
2018–2021 (USD MILLION)

TABLE 149 SMART CONTAINER MARKET FOR IN AUSTRALIA, BY VERTICAL,

2022–2027 (USD MILLION)

#### 9.4.5 REST OF ASIA PACIFIC

9.4.5.1 Growth in chemicals and pharmaceuticals industries to fuel demand

TABLE 150 SMART CONTAINER MARKET IN REST OF ASIA PACIFIC, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 151 SMART CONTAINER MARKET FOR IN REST OF ASIA PACIFIC, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 152 SMART CONTAINER MARKET IN REST OF ASIA PACIFIC, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 153 SMART CONTAINER MARKET FOR IN REST OF ASIA PACIFIC, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.5 REST OF THE WORLD (ROW)

FIGURE 52 SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY

FIGURE 53 REST OF THE WORLD: SMART CONTAINER MARKET SNAPSHOT (2021)

TABLE 154 SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 155 SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 156 SMART CONTAINER MARKET IN REST OF THE WORLD, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 157 SMART CONTAINER MARKET IN REST OF THE WORLD, BY VERTICAL, 2022–2027 (USD MILLION)

TABLE 158 SMART CONTAINER MARKET IN REST OF THE WORLD, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 159 SMART CONTAINER MARKET IN REST OF THE WORLD, BY OFFERING, 2022–2027 (USD MILLION)

#### 9.5.1 MIDDLE EAST & AFRICA

9.5.1.1 Oil & gas export to drive smart container demand

TABLE 160 SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 161 SMART CONTAINER MARKET FOR IN MIDDLE EAST & AFRICA, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 162 SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 163 SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY VERTICAL, 2022–2027 (USD MILLION)

#### 9.5.2 SOUTH AMERICA

9.5.2.1 Market to witness high growth driven by food & beverages vertical

TABLE 164 SMART CONTAINER MARKET IN SOUTH AMERICA, BY OFFERING, 2018–2021 (USD MILLION)

TABLE 165 SMART CONTAINER MARKET FOR IN SOUTH AMERICA, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 166 SMART CONTAINER MARKET IN SOUTH AMERICA, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 167 SMART CONTAINER MARKET IN SOUTH AMERICA, BY VERTICAL, 2022–2027 (USD MILLION)

## **10 COMPETITIVE LANDSCAPE**

### **10.1 INTRODUCTION**

### **10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN**

### **10.3 MARKET EVALUATION FRAMEWORK**

#### **10.3.1 PRODUCT PORTFOLIO**

#### **10.3.2 REGIONAL FOCUS**

#### **10.3.3 ORGANIC/INORGANIC PLAY**

### **10.4 MARKET SHARE ANALYSIS OF TOP PLAYERS, 2021**

TABLE 168 GLOBAL SMART CONTAINER MARKET: MARKET SHARE ANALYSIS

### **10.5 COMPETITIVE EVALUATION QUADRANT, 2021**

#### **10.5.1 STARS**

#### **10.5.2 EMERGING LEADERS**

#### **10.5.3 PERVASIVE PLAYERS**

#### **10.5.4 PARTICIPANTS**

FIGURE 54 SMART CONTAINER MARKET (GLOBAL): COMPANY EVALUATION QUADRANT, 2021

### **10.6 SMALL AND MEDIUM-SIZED ENTERPRISES (SMES): EVALUATION QUADRANT, 2021**

#### **10.6.1 PROGRESSIVE COMPANIES**

#### **10.6.2 RESPONSIVE COMPANIES**

#### **10.6.3 DYNAMIC COMPANIES**

#### **10.6.4 STARTING BLOCKS**

FIGURE 55 SMART CONTAINER MARKET (GLOBAL): SMES EVALUATION QUADRANT, 2021

### **10.7 SMART CONTAINER MARKET: COMPANY FOOTPRINT**

TABLE 169 COMPANY PRODUCT FOOTPRINT (12 COMPANIES)

TABLE 170 COMPANY TECHNOLOGY FOOTPRINT (10 COMPANIES)

TABLE 171 COMPANY INDUSTRY FOOTPRINT (10 COMPANIES)

TABLE 172 COMPANY REGIONAL FOOTPRINT (10 COMPANIES)

TABLE 173 COMPANY FOOTPRINT (10 COMPANIES)

10.8 SMART CONTAINER MARKET: SMES MATRIX

TABLE 174 SMART CONTAINER MARKET: DETAILED LIST OF KEY SMES

TABLE 175 SMART CONTAINER MARKET: COMPETITIVE BENCHMARKING OF KEY SMES

10.9 COMPETITIVE SITUATIONS AND TRENDS

10.9.1 PRODUCT LAUNCHES

TABLE 176 SMART CONTAINER MARKET: PRODUCT LAUNCHES

10.9.2 DEALS

TABLE 177 SMART CONTAINER MARKET: DEALS

10.9.3 OTHERS

TABLE 178 OTHER DEVELOPMENTS

## **11 COMPANY PROFILES**

11.1 INTRODUCTION

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)\*

11.2 KEY PLAYERS

11.2.1 ORBCOMM INC.

TABLE 179 ORBCOMM INC.: BUSINESS OVERVIEW

FIGURE 56 ORBCOMM INC.: COMPANY SNAPSHOT

11.2.2 SKYCELL AG

TABLE 180 SKYCELL AG: BUSINESS OVERVIEW

11.2.3 TRAXENS

TABLE 181 TRAXENS: BUSINESS OVERVIEW

11.2.4 PHILLIPS CONNECT

TABLE 182 PHILLIPS CONNECT: BUSINESS OVERVIEW

11.2.5 GLOBE TRACKER

TABLE 183 GLOBE TRACKER: BUSINESS OVERVIEW

11.2.6 NEXXIOT AG

TABLE 184 NEXXIOT AG: BUSINESS OVERVIEW

11.2.7 SEALAND - A MAERSK COMPANY

TABLE 185 SEALAND – A MAERSK COMPANY: BUSINESS OVERVIEW

FIGURE 57 AP MOLLER - MAERSK: COMPANY SNAPSHOT

11.2.8 MSC

TABLE 186 MSC: BUSINESS OVERVIEW

11.2.9 AMBROSUS

TABLE 187 AMBROSUS: BUSINESS OVERVIEW

#### 11.2.10 ZILLIONSOURCE TECHNOLOGIES

##### TABLE 188 ZILLIONSOURCE TECHNOLOGIES: BUSINESS OVERVIEW

#### 11.2.11 BERLINGER & CO. AG

##### TABLE 189 BERLINGER & CO. AG: BUSINESS OVERVIEW

#### 11.2.12 SHENZHEN CIMC TECHNOLOGY CO., LTD. (CIMC HITECH)

##### TABLE 190 SHENZHEN CIMC TECHNOLOGY CO., LTD.: BUSINESS OVERVIEW

\*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

### 11.3 OTHER KEY COMPANIES

#### 11.3.1 LOGINNO

#### 11.3.2 SAVVY TELEMATIC SYSTEMS AG

#### 11.3.3 SENSOLUS

#### 11.3.4 SECURESYSTEM GMBH

#### 11.3.5 IBM

#### 11.3.6 EMERSON ELECTRIC CO.

#### 11.3.7 SENSITECH INC.

#### 11.3.8 ARVIEM AG

#### 11.3.9 AKUA

#### 11.3.10 MONNIT CORPORATION

#### 11.3.11 HYPERTHINGS

#### 11.3.12 PURFRESH TRANSPORT

#### 11.3.13 AELER TECHNOLOGIES SA

## 12 ADJACENT & RELATED MARKETS

### 12.1 INTRODUCTION

### 12.2 LIMITATIONS

### 12.3 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE

#### TABLE 191 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE, 2017–2020 (USD MILLION)

#### TABLE 192 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE, 2021–2026 (USD MILLION)

#### 12.3.1 FROZEN

12.3.1.1 Frozen segment to continue to hold larger share of cold chain monitoring market during forecast period

#### 12.3.2 CHILLED

12.3.2.1 Chilled segment to grow at higher CAGR during forecast period

### 12.4 COLD CHAIN MONITORING MARKET, BY OFFERING

#### TABLE 193 COLD CHAIN MONITORING MARKET, BY OFFERING, 2017–2020 (USD



MILLION)

TABLE 194 COLD CHAIN MONITORING MARKET, BY OFFERING, 2021–2026 (USD MILLION)

#### 12.4.1 HARDWARE

TABLE 195 COLD CHAIN MONITORING MARKET, BY HARDWARE, 2017–2020 (USD MILLION)

TABLE 196 COLD CHAIN MONITORING MARKET, BY HARDWARE, 2021–2026 (USD MILLION)

TABLE 197 COLD CHAIN MONITORING HARDWARE MARKET IN AMERICAS, BY REGION, 2017–2020 (USD MILLION)

TABLE 198 COLD CHAIN MONITORING HARDWARE MARKET IN AMERICAS, BY REGION, 2021–2026 (USD MILLION)

TABLE 199 COLD CHAIN MONITORING HARDWARE MARKET IN NORTH AMERICA, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 200 COLD CHAIN MONITORING HARDWARE MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 201 COLD CHAIN MONITORING HARDWARE MARKET IN EUROPE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 202 COLD CHAIN MONITORING HARDWARE MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 203 COLD CHAIN MONITORING HARDWARE MARKET IN APAC, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 204 COLD CHAIN MONITORING HARDWARE MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 205 COLD CHAIN MONITORING HARDWARE MARKET IN ROW, BY REGION, 2017–2020 (USD MILLION)

TABLE 206 COLD CHAIN MONITORING HARDWARE MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)

##### 12.4.1.1 Sensors and data loggers

12.4.1.1.1 Sensors and data loggers increasingly being used to gather real-time data across pharmaceuticals industry

TABLE 207 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET, BY LOGISTICS, 2017–2020 (USD MILLION)

TABLE 208 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET, BY LOGISTICS, 2021–2026 (USD MILLION)

TABLE 209 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 210 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 211 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 212 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2021–2026 (USD MILLION)

TABLE 213 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET FOR FOOD & BEVERAGES, BY TYPE, 2017–2020 (USD MILLION)

TABLE 214 COLD CHAIN MONITORING SENSORS AND DATA LOGGERS MARKET FOR FOOD & BEVERAGES, BY TYPE, 2021–2026 (USD MILLION)

#### 12.4.1.2 RFID devices

12.4.1.2.1 High demand for RFID tags in large warehouses to drive cold chain monitoring market during forecast period

TABLE 215 COLD CHAIN MONITORING MARKET FOR RFID DEVICES, BY LOGISTICS, 2017–2020 (USD MILLION)

TABLE 216 COLD CHAIN MONITORING MARKET FOR RFID DEVICES, BY LOGISTICS, 2021–2026 (USD MILLION)

TABLE 217 COLD CHAIN MONITORING MARKET FOR RFID DEVICES, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 218 COLD CHAIN MONITORING MARKET FOR RFID DEVICES, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 219 RFID DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 220 RFID DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2021–2026 (USD MILLION)

TABLE 221 RFID DEVICES MARKET FOR FOOD & BEVERAGES, BY TYPE, 2017–2020 (USD MILLION)

TABLE 222 RFID DEVICES MARKET FOR FOOD & BEVERAGES, BY TYPE, 2021–2026 (USD MILLION)

#### 12.4.1.3 Telematics & telemetry devices

12.4.1.3.1 Rising need for efficient telematics support to track food products in food & beverages industry to drive demand for telematics & telemetry devices

TABLE 223 COLD CHAIN MONITORING MARKET FOR TELEMATICS & TELEMETRY DEVICES, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 224 COLD CHAIN MONITORING MARKET FOR TELEMATICS & TELEMETRY DEVICES, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 225 TELEMATICS & TELEMETRY DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 226 TELEMATICS & TELEMETRY DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2021–2026 (USD MILLION)

TABLE 227 TELEMATICS & TELEMETRY DEVICES MARKET FOR FOOD &

BEVERAGES, BY TYPE, 2017–2020 (USD MILLION)

TABLE 228 TELEMATICS & TELEMETRY DEVICES MARKET FOR FOOD & BEVERAGES, BY TYPE, 2021–2026 (USD MILLION)

12.4.1.4 Networking devices

12.4.1.4.1 Growth of networking devices in cold chain monitoring market attributed to growing internationalization of pharmaceuticals supply chain

TABLE 229 COLD CHAIN MONITORING MARKET FOR NETWORKING DEVICES, BY LOGISTICS, 2017–2020 (USD MILLION)

TABLE 230 COLD CHAIN MONITORING MARKET FOR NETWORKING DEVICES, BY LOGISTICS, 2021–2026 (USD MILLION)

TABLE 231 COLD CHAIN MONITORING MARKET FOR NETWORKING DEVICES, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 232 COLD CHAIN MONITORING MARKET FOR NETWORKING DEVICES, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 233 NETWORKING DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2017–2020 (USD MILLION)

TABLE 234 NETWORKING DEVICES MARKET FOR PHARMACEUTICALS & HEALTHCARE, BY TYPE, 2021–2026 (USD MILLION)

TABLE 235 NETWORKING DEVICES MARKET FOR FOOD & BEVERAGES, BY TYPE, 2017–2020 (USD MILLION)

TABLE 236 NETWORKING DEVICES MARKET FOR FOOD & BEVERAGES, BY TYPE, 2021–2026 (USD MILLION)

12.4.2 SOFTWARE

TABLE 237 COLD CHAIN MONITORING SOFTWARE MARKET, BY LOGISTICS, 2017–2020 (USD MILLION)

TABLE 238 COLD CHAIN MONITORING SOFTWARE MARKET, BY LOGISTICS, 2021–2026 (USD MILLION)

TABLE 239 COLD CHAIN MONITORING SOFTWARE MARKET IN AMERICAS, BY REGION, 2017–2020 (USD MILLION)

TABLE 240 COLD CHAIN MONITORING SOFTWARE MARKET IN AMERICAS, BY REGION, 2021–2026 (USD MILLION)

TABLE 241 COLD CHAIN MONITORING SOFTWARE MARKET IN NORTH AMERICA, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 242 COLD CHAIN MONITORING SOFTWARE MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 243 COLD CHAIN MONITORING SOFTWARE MARKET IN EUROPE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 244 COLD CHAIN MONITORING SOFTWARE MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 245 COLD CHAIN MONITORING SOFTWARE MARKET IN APAC, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 246 COLD CHAIN MONITORING SOFTWARE MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 247 COLD CHAIN MONITORING SOFTWARE MARKET IN ROW, BY REGION, 2017–2020 (USD MILLION)

TABLE 248 COLD CHAIN MONITORING SOFTWARE MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)

12.4.2.1 On-premises

12.4.2.1.1 On-premises deployment suitable for localized cold chain monitoring

12.4.2.2 Cloud-based

12.4.2.2.1 Market for cloud-based deployment type expected to grow at higher CAGR during forecast period

## **13 APPENDIX**

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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