

**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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**Report description:**

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

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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.

#### Table of Contents:

1	INTRODUCTION	25
1.1	STUDY OBJECTIVES	25
1.2	MARKET DEFINITION	25
1.3	INCLUSIONS AND EXCLUSIONS	26
1.4	STUDY SCOPE	26
1.4.1	MARKETS COVERED	26
FIGURE 1	SMART CONTAINER MARKET SEGMENTATION	26
1.4.2	REGIONAL SCOPE	27
FIGURE 2	SMART CONTAINER MARKET, BY REGION	27

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1.4.3	YEARS CONSIDERED	27
1.5	CURRENCY CONSIDERED	28
1.6	LIMITATIONS	28
1.7	STAKEHOLDERS	28
1.8	SUMMARY OF CHANGES	29
2	RESEARCH METHODOLOGY	30
2.1	RESEARCH DATA	30
FIGURE 3	SMART CONTAINER MARKET: PROCESS FLOW OF MARKET SIZE ESTIMATION	30
FIGURE 4	SMART CONTAINER MARKET: RESEARCH DESIGN	31
2.2	SECONDARY AND PRIMARY RESEARCH	31
FIGURE 5	SMART CONTAINER MARKET: RESEARCH APPROACH	32
2.2.1	SECONDARY DATA	32
2.2.1.1	Major secondary sources	33
2.2.1.2	Key data from secondary sources	33
2.2.2	PRIMARY DATA	34
2.2.2.1	Primary interviews with experts	34
2.2.2.2	Breakdown of primaries	34
2.2.2.3	Key data from primary sources	35
2.2.2.4	Key industry insights	35
2.3	MARKET SIZE ESTIMATION	36
2.3.1	BOTTOM-UP APPROACH	37
2.3.1.1	Approach to capture market size by bottom-up analysis (demand side)	37
FIGURE 6	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	37
2.3.2	TOP-DOWN APPROACH	38
2.3.2.1	Approach to capture market size by top-down analysis (supply side)	38
FIGURE 7	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	38
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	39
FIGURE 8	SMART CONTAINER MARKET: DATA TRIANGULATION	39
2.5	RESEARCH ASSUMPTIONS AND LIMITATIONS	40
2.5.1	RESEARCH ASSUMPTIONS	40
FIGURE 9	ASSUMPTIONS FOR RESEARCH STUDY	40
2.5.2	LIMITATIONS	41
2.6	RISK ASSESSMENT	41
FIGURE 10	RISK ASSESSMENT	41
3	EXECUTIVE SUMMARY	42
FIGURE 11	GPS TECHNOLOGY SEGMENT TO ACCOUNT FOR LARGEST SHARE OF SMART CONTAINER MARKET IN 2022	42
FIGURE 12	HARDWARE SEGMENT TO REGISTER HIGHEST CAGR IN SMART CONTAINER MARKET, BY OFFERING, FROM 2022 TO 2027	43
FIGURE 13	PHARMACEUTICALS VERTICAL TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD	44
FIGURE 14	SMART CONTAINER MARKET TO WITNESS FASTEST GROWTH IN ASIA PACIFIC DURING FORECAST PERIOD	45
4	PREMIUM INSIGHTS	46
4.1	ATTRACTIVE OPPORTUNITIES FOR SMART CONTAINER MARKET PLAYERS	46
FIGURE 15	INCREASED DEMAND FROM COMMERCIAL AND RESIDENTIAL SECTORS TO BOOST DEMAND	46
4.2	SMART CONTAINER MARKET, BY OFFERING	46
FIGURE 16	HARDWARE OFFERING SEGMENT TO REGISTER HIGHEST MARKET SHARE IN 2022	46
4.3	SMART CONTAINER MARKET, BY VERTICAL AND REGION	47
FIGURE 17	FOOD AND BEVERAGES AND EUROPE ACCOUNTED FOR LARGEST SHARES OF SMART CONTAINER MARKET IN 2021	47

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4.4	SMART CONTAINER MARKET, BY TECHNOLOGY	47
	FIGURE 18	LORA WAN TECHNOLOGY SEGMENT TO WITNESS FASTEST GROWTH RATE DURING FORECAST PERIOD
4.5	SMART CONTAINER MARKET, BY GEOGRAPHY	48
	FIGURE 19	GERMANY TO ACCOUNT FOR LARGEST SHARE OF SMART CONTAINER MARKET IN 2022
5	MARKET OVERVIEW	49
5.1	INTRODUCTION	49
5.2	MARKET DYNAMICS	50
	FIGURE 20	GROWTH IN LOGISTICS INDUSTRY TO BE GREAT OPPORTUNITY IN SMART CONTAINER MARKET
5.2.1	DRIVERS	51
	FIGURE 21	IMPACT OF DRIVERS ON SMART CONTAINER MARKET
5.2.1.1	Increased focus on End-to-End (E2E) supply chain visibility	51
5.2.1.2	Rise in demand for monitoring and controlling internal container conditions	51
5.2.1.3	Increased adoption of IoT devices by shipping companies	52
	?	
5.2.2	RESTRAINTS	52
	FIGURE 22	IMPACT OF RESTRAINTS ON SMART CONTAINER MARKET
5.2.2.1	Shipping industry ill-prepared for cyber-attacks	53
5.2.3	OPPORTUNITIES	53
	FIGURE 23	IMPACT OF OPPORTUNITIES ON SMART CONTAINER MARKET
5.2.3.1	Growth in logistics industry leading to increasing demand for containers	53
5.2.3.2	Emergence of advanced technologies	54
5.2.4	CHALLENGES	54
	FIGURE 24	IMPACT OF CHALLENGES ON SMART CONTAINER MARKET
5.2.4.1	Lack of interoperability among IoT devices and sensors	55
5.3	VALUE CHAIN ANALYSIS	55
	FIGURE 25	VALUE CHAIN ANALYSIS OF SMART CONTAINER MARKET
5.4	ECOSYSTEM MAPPING	57
	FIGURE 26	SMART CONTAINER ECOSYSTEM
	TABLE 1	COMPANIES AND THEIR ROLES IN SMART CONTAINER ECOSYSTEM
5.5	PRICING ANALYSIS	59
5.5.1	AVERAGE SELLING PRICE OF IMPLEMENTATION TYPES, BY KEY PLAYER	59
	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	60
	TABLE 2	AVERAGE SELLING PRICE TREND FOR IOT GATEWAY
5.5.1.2	Average selling price trend for data loggers	60
	TABLE 3	AVERAGE SELLING PRICE TREND FOR DATA LOGGER
5.5.1.3	Average selling price trend for GPS trackers	61
	TABLE 4	AVERAGE SELLING PRICE TRENDS FOR GPS TRACKERS
5.6	TREND ANALYSIS	61
5.6.1	E-PLATFORMS	61
5.6.2	IOT DEVICES	61
5.6.3	BLOCKCHAIN	62
5.7	REVENUE SHIFT AND NEW REVENUE POCKETS FOR SMART CONTAINER MARKET	62
	FIGURE 28	REVENUE SHIFT IN SMART CONTAINER MARKET
5.8	TECHNOLOGY ANALYSIS	63
5.8.1	BLUETOOTH LOW ENERGY (BLE)	63
5.8.2	INTERNET OF THINGS (IOT)	63

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5.8.3	BIG DATA	63
5.8.4	LORA TECHNOLOGY	64
5.9	PORTER'S FIVE FORCES ANALYSIS	64
TABLE 5	PORTER'S FIVE FORCES IMPACT ON SMART CONTAINER MARKET	64
FIGURE 29	PORTER'S FIVE FORCES ANALYSIS: SMART CONTAINER MARKET	65
5.9.1	THREAT OF NEW ENTRANTS	65
5.9.2	THREAT OF SUBSTITUTES	65
5.9.3	BARGAINING POWER OF SUPPLIERS	66
5.9.4	BARGAINING POWER OF BUYERS	66
5.9.5	DEGREE OF COMPETITION	66
5.10	KEY STAKEHOLDERS & BUYING CRITERIA	66
5.10.1	KEY STAKEHOLDERS IN BUYING PROCESS	66
FIGURE 30	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USES	66
TABLE 6	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USES (%)	67
5.10.2	BUYING CRITERIA	67
FIGURE 31	KEY BUYING CRITERIA FOR VERTICALS	67
TABLE 7	KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES	67
5.11	CASE STUDY	68
5.11.1	USE CASE 1: CFL MULTIMODAL	68
5.11.2	USE CASE 2: AXA XL	68
5.11.3	USE CASE 3: HAPAG-LLOYD	68
5.11.4	USE CASE 4: SWEETLIFE	69
5.12	TRADE ANALYSIS	69
5.12.1	CONTAINERS	69
FIGURE 32	EXPORT DATA FOR CONTAINERS, 2017-2021 (USD MILLION)	69
FIGURE 33	IMPORT DATA FOR CONTAINERS, 2017-2021 (USD MILLION)	70
5.13	PATENT ANALYSIS	71
FIGURE 34	TOP COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS	71
FIGURE 35	NUMBER OF PATENTS GRANTED PER YEAR FROM 2012 TO 2021	71
TABLE 8	LIST OF TOP PATENT OWNERS IN LAST 10 YEARS	72
5.13.1	LIST OF MAJOR PATENTS	73
5.14	KEY CONFERENCES & EVENTS IN 2023-2024	76
TABLE 9	SMART CONTAINER MARKET: DETAILED LIST OF CONFERENCES & EVENTS	76
5.15	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	77
5.15.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS IN SMART CONTAINER MARKET	77
TABLE 10	NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	77
TABLE 11	EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	77
TABLE 12	APAC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	78
TABLE 13	ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	78
5.15.2	STANDARDS AND REGULATIONS RELATED TO MARKET	79
5.15.2.1	North America	79
5.15.2.1.1	US	79
5.15.2.1.1.1	Safe Containers Convention Act - R.S.C., 1985, c. S-1	79
5.15.2.1.2	Radio standard for gateways on vessels	79
5.15.2.2	Europe	79
5.15.2.2.1	France	79
5.15.2.2.1.1	ISO 6346:2022(MAIN)	79

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- 5.15.2.2.1.2 ISO 6346 79
- 5.15.2.2.1.3 ISO 9897:1997/Cor 1:2001 80
- 5.15.2.2.2 UK 80
- 5.15.2.2.2.1 ISO 20854:2019 80
- 5.15.2.2.2.2 ISO 10368:2006 80
- 5.15.2.2.3 Belgium 80
- 5.15.2.2.3.1 EPCIS & CBV 80
- 5.15.2.2.4 Germany 80
- 5.15.2.2.4.1 ISO 10374:1991 80
- 5.15.2.2.5 Switzerland 81
- 5.15.2.2.5.1 ISO 18185-1:2007 81
- 5.15.2.2.5.2 ISO 18186:2011 81
- 5.15.2.2.5.3 ISO/TS 18625:2017 81
- 6 SMART CONTAINER MARKET, BY OFFERING 82
- 6.1 INTRODUCTION 83
- FIGURE 36 SMART CONTAINER MARKET, BY OFFERING 83
- FIGURE 37 HARDWARE TO BE LARGEST OFFERING SEGMENT OF SMART CONTAINER MARKET DURING FORECAST PERIOD 83
- TABLE 14 SMART CONTAINER MARKET, BY OFFERING, 2018-2021 (USD MILLION) 84
- TABLE 15 SMART CONTAINER MARKET, BY OFFERING, 2022-2027 (USD MILLION) 84
- 6.2 HARDWARE 84
- TABLE 16 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2018-2021 (USD MILLION) 84
- TABLE 17 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2022-2027 (USD MILLION) 85
- TABLE 18 SMART CONTAINER MARKET FOR HARDWARE, BY COMPONENT, 2018-2021 (USD MILLION) 85
- TABLE 19 SMART CONTAINER MARKET FOR HARDWARE, BY COMPONENT, 2022-2027 (USD MILLION) 85
- 6.2.1 SENSORS 86
- TABLE 20 SMART CONTAINER MARKET FOR SENSORS, BY SENSOR TYPE, 2018-2021 (USD MILLION) 86
- TABLE 21 SMART CONTAINER MARKET FOR SENSORS, BY SENSOR TYPE, 2022-2027 (USD MILLION) 86
- 6.2.1.1 Temperature sensors 87
- 6.2.1.1.1 Temperature sensors most widely used type of sensors 87
- 6.2.1.2 Pressure sensors 87
- 6.2.1.2.1 Pressure sensors adopted in various applications across oil & gas, chemicals, and food & beverages verticals 87
- 6.2.1.3 Humidity sensors 87
- 6.2.1.3.1 Humidity sensors subsegment to witness high growth 87
- 6.2.1.4 Gas sensors 87
- 6.2.1.4.1 Gas sensors increasingly being adopted in oil & gas and chemicals verticals 87
- 6.2.1.5 Other sensors 88
- 6.2.1.5.1 Other sensors include optical, magnetic, shock detection, leakage detection, and position sensors 88
- TABLE 22 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2018-2021 (USD MILLION) 88
- TABLE 23 SMART CONTAINER MARKET FOR HARDWARE, BY REGION, 2022-2027 (USD MILLION) 88
- 6.2.2 CONNECTIVITY DEVICES 89
- 6.2.2.1 Connectivity devices to witness highest growth in smart container market for hardware 89
- 6.2.3 TELEMATICS AND TELEMETRY DEVICES 89
- 6.2.3.1 Telematics and telemetry devices enable efficient logistics management 89
- 6.3 SOFTWARE 89
- 6.3.1 SMART CONTAINER MARKET FOR SOFTWARE TO WITNESS HIGHEST GROWTH IN ASIA PACIFIC 89
- FIGURE 38 ASIA PACIFIC TO WITNESS HIGHEST GROWTH IN SMART CONTAINER MARKET FOR SOFTWARE DURING FORECAST PERIOD 90

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TABLE 24 SMART CONTAINER MARKET FOR SOFTWARE, BY REGION, 2018-2021 (USD MILLION) 90

TABLE 25 SMART CONTAINER MARKET FOR SOFTWARE, BY REGION, 2022-2027 (USD MILLION) 90

6.4 SERVICES 91

6.4.1 EUROPE TO DOMINATE SMART CONTAINER SERVICES MARKET DURING FORECAST PERIOD 91

TABLE 26 SMART CONTAINER MARKET FOR SERVICES, BY REGION, 2018-2021 (USD MILLION) 91

TABLE 27 SMART CONTAINER MARKET FOR SERVICES, BY REGION, 2022-2027 (USD MILLION) 91

7 SMART CONTAINER MARKET, BY TECHNOLOGY 92

7.1 INTRODUCTION 92

FIGURE 39 SMART CONTAINER MARKET, BY TECHNOLOGY 92

FIGURE 40 LORA WAN TO GROW AT HIGHEST CAGR IN SMART CONTAINER MARKET DURING FORECAST PERIOD 93

TABLE 28 SMART CONTAINER MARKET, BY TECHNOLOGY, 2018-2021 (USD MILLION) 93

TABLE 29 SMART CONTAINER MARKET, BY TECHNOLOGY, 2022-2027 (USD MILLION) 93

7.2 GLOBAL POSITIONING SYSTEM (GPS) 94

7.2.1 GPS TO HOLD MAJOR SHARE OF SMART CONTAINER TECHNOLOGY MARKET 94

7.3 CELLULAR 94

7.3.1 CELLULAR TECHNOLOGY EASIEST WAY TO DETECT AND DEFINE LOCATION OF CONTAINERS 94

7.4 LORA WAN (LONG RANGE WIDE AREA NETWORK) 95

7.4.1 LORA WAN CAN REACH SENSORS MONITORING ASSETS INSIDE CONTAINERS DUE TO ITS DEEP INDOOR PENETRATION FEATURE 95

7.5 BLUETOOTH LOW ENERGY (BLE) 95

7.5.1 BLE CONSIDERED FUTURE OF CONSUMER ENGAGEMENT IN SUPPLY CHAIN OPERATIONS 95

7.6 OTHERS 96

7.6.1 BENEFITS OFFERED BY ALTERNATIVE TECHNOLOGIES TO SLOW DOWN MARKET FOR WI-FI IN COMING YEARS 96

8 SMART CONTAINER MARKET, BY VERTICAL 97

8.1 INTRODUCTION 98

FIGURE 41 SMART CONTAINER MARKET, BY VERTICAL 98

FIGURE 42 FOOD & BEVERAGES LARGEST SEGMENT OF SMART CONTAINER MARKET DURING FORECAST PERIOD 99

TABLE 30 SMART CONTAINER MARKET, BY VERTICAL, 2018-2021 (USD MILLION) 99

TABLE 31 SMART CONTAINER MARKET, BY VERTICAL, 2022-2027 (USD MILLION) 99

8.2 FOOD & BEVERAGES 100

8.2.1 EUROPE TO HOLD MAJOR SHARE OF SMART CONTAINER MARKET FOR FOOD & BEVERAGES VERTICAL DURING FORECAST PERIOD 100

TABLE 32 SMART CONTAINER MARKET FOR FOOD & BEVERAGES, BY REGION, 2018-2021 (USD MILLION) 100

TABLE 33 SMART CONTAINER MARKET FOR FOOD & BEVERAGES, BY REGION, 2022-2027 (USD MILLION) 101

TABLE 34 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD THOUSAND) 101

TABLE 35 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD THOUSAND) 101

TABLE 36 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 102

TABLE 37 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 102

TABLE 38 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ASIA PACIFIC, BY COUNTRY, 2018-2021 (USD MILLION) 102

TABLE 39 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ASIA PACIFIC, BY COUNTRY, 2022-2027 (USD MILLION) 103

TABLE 40 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ROW, BY REGION, 2018-2021 (USD MILLION) 103

TABLE 41 SMART CONTAINER MARKET FOR FOOD & BEVERAGES IN ROW, BY REGION, 2022-2027 (USD MILLION) 103

8.3 PHARMACEUTICALS 104

8.3.1 SMART CONTAINER MARKET FOR PHARMACEUTICALS VERTICAL TO WITNESS HIGHEST GROWTH IN ASIA PACIFIC DURING FORECAST PERIOD 104

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TABLE 42 SMART CONTAINER MARKET FOR PHARMACEUTICALS, BY REGION, 2018-2021 (USD MILLION) 104

TABLE 43 SMART CONTAINER MARKET FOR PHARMACEUTICALS, BY REGION, 2022-2027 (USD MILLION) 104

TABLE 44 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD MILLION) 105

TABLE 45 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD MILLION) 105

TABLE 46 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 105

TABLE 47 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 106

TABLE 48 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ASIA PACIFIC, BY COUNTRY, 2018-2021 (USD MILLION) 106

TABLE 49 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ASIA PACIFIC, BY COUNTRY, 2022-2027 (USD MILLION) 106

TABLE 50 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ROW, BY REGION, 2018-2021 (USD MILLION) 107

TABLE 51 SMART CONTAINER MARKET FOR PHARMACEUTICALS IN ROW, BY REGION, 2022-2027 (USD MILLION) 107

8.4 OIL & GAS 108

8.4.1 US TO ACCOUNT FOR MAJOR SHARE OF NORTH AMERICAN SMART CONTAINER MARKET FOR OIL & GAS VERTICAL DURING FORECAST PERIOD 108

TABLE 52 SMART CONTAINER MARKET FOR OIL & GAS, BY REGION, 2018-2021 (USD MILLION) 108

TABLE 53 SMART CONTAINER MARKET FOR OIL & GAS, BY REGION, 2022-2027 (USD MILLION) 108

TABLE 54 SMART CONTAINER MARKET FOR OIL & GAS IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD MILLION) 109

TABLE 55 SMART CONTAINER MARKET FOR OIL & GAS IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD MILLION) 109

TABLE 56 SMART CONTAINER MARKET FOR OIL & GAS IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 109

TABLE 57 SMART CONTAINER MARKET FOR OIL & GAS IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 110

TABLE 58 SMART CONTAINER MARKET FOR OIL & GAS IN ASIA PACIFIC, BY COUNTRY, 2018-2021 (USD MILLION) 110

TABLE 59 SMART CONTAINER MARKET FOR OIL & GAS IN ASIA PACIFIC, BY COUNTRY, 2022-2027 (USD MILLION) 110

TABLE 60 SMART CONTAINER MARKET FOR OIL & GAS IN ROW, BY REGION, 2018-2021 (USD MILLION) 111

TABLE 61 SMART CONTAINER MARKET FOR OIL & GAS IN ROW, BY REGION, 2022-2027 (USD MILLION) 111

8.5 CHEMICALS 111

8.5.1 INCREASED TRADE OF CHEMICAL PRODUCTS IN ASIA PACIFIC TO DRIVE MARKET GROWTH 111

TABLE 62 SMART CONTAINER MARKET FOR CHEMICALS, BY REGION, 2018-2021 (USD MILLION) 112

TABLE 63 SMART CONTAINER MARKET FOR CHEMICALS, BY REGION, 2022-2027 (USD MILLION) 112

TABLE 64 SMART CONTAINER MARKET FOR CHEMICALS IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD MILLION) 112

TABLE 65 SMART CONTAINER MARKET FOR CHEMICALS IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD MILLION) 112

TABLE 66 SMART CONTAINER MARKET FOR CHEMICALS IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 113

TABLE 67 SMART CONTAINER MARKET FOR CHEMICALS IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 113

TABLE 68 SMART CONTAINER MARKET FOR CHEMICALS IN ASIA PACIFIC, BY COUNTRY, 2018-2021 (USD MILLION) 113

TABLE 69 SMART CONTAINER MARKET FOR CHEMICALS IN ASIA PACIFIC, BY COUNTRY, 2022-2027 (USD MILLION) 114

TABLE 70 SMART CONTAINER MARKET FOR CHEMICALS IN ROW, BY REGION, 2018-2021 (USD MILLION) 114

TABLE 71 SMART CONTAINER MARKET FOR CHEMICALS IN ROW, BY REGION, 2022-2027 (USD MILLION) 114

8.6 OTHERS 115

8.6.1 RISE IN DEMAND FOR EFFICIENT TRANSPORTATION OF SENSITIVE MATERIALS TO DRIVE MARKET IN DEFENSE AND MINING SECTOR 115

TABLE 72 SMART CONTAINER MARKET FOR OTHER VERTICALS, BY REGION, 2018-2021 (USD MILLION) 115

TABLE 73 SMART CONTAINER MARKET FOR OTHER VERTICALS, BY REGION, 2022-2027 (USD MILLION) 116

TABLE 74 SMART CONTAINER MARKET FOR OTHER VERTICALS IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD MILLION) 116

TABLE 75 SMART CONTAINER MARKET FOR OTHER VERTICALS IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD MILLION) 116

TABLE 76 SMART CONTAINER MARKET FOR OTHER VERTICALS IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 117

TABLE 77 SMART CONTAINER MARKET FOR OTHER VERTICALS IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 117

TABLE 78 SMART CONTAINER MARKET FOR OTHER VERTICALS IN APAC, BY COUNTRY, 2018-2021 (USD MILLION) 117

TABLE 79 SMART CONTAINER MARKET FOR OTHER VERTICALS IN APAC, BY COUNTRY, 2022-2027 (USD MILLION) 118

TABLE 80 SMART CONTAINER MARKET FOR OTHER VERTICALS IN ROW, BY REGION, 2018-2021 (USD MILLION) 118

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TABLE 81 SMART CONTAINER MARKET FOR OTHER VERTICALS IN ROW, BY REGION, 2022-2027 (USD MILLION) 118

9 GEOGRAPHIC ANALYSIS 119

9.1 INTRODUCTION 120

FIGURE 43 GEOGRAPHIC SNAPSHOT: RAPIDLY GROWING ECONOMIES, SUCH AS INDIA, CHINA, AND MEXICO EMERGING AS NEW POTENTIAL MARKETS 120

FIGURE 44 SMART CONTAINER MARKET, BY REGION 121

TABLE 82 SMART CONTAINER MARKET, BY REGION, 2018-2021 (USD MILLION) 121

TABLE 83 SMART CONTAINER MARKET, BY REGION, 2022-2027 (USD MILLION) 121

9.2 NORTH AMERICA 122

FIGURE 45 NORTH AMERICA SMART CONTAINER MARKET, BY COUNTRY 123

FIGURE 46 US LED SMART CONTAINER MARKET IN NORTH AMERICA IN 2021 123

FIGURE 47 NORTH AMERICA: SMART CONTAINER MARKET SNAPSHOT (2021) 124

TABLE 84 SMART CONTAINER MARKET IN NORTH AMERICA, BY COUNTRY, 2018-2021 (USD MILLION) 124

TABLE 85 SMART CONTAINER MARKET IN NORTH AMERICA, BY COUNTRY, 2022-2027 (USD MILLION) 125

TABLE 86 SMART CONTAINER MARKET IN NORTH AMERICA, BY VERTICAL, 2018-2021 (USD MILLION) 125

TABLE 87 SMART CONTAINER MARKET IN NORTH AMERICA, BY VERTICAL, 2022-2027 (USD MILLION) 125

TABLE 88 SMART CONTAINER MARKET IN NORTH AMERICA, BY OFFERING, 2018-2021 (USD MILLION) 126

TABLE 89 SMART CONTAINER MARKET IN NORTH AMERICA, BY OFFERING, 2022-2027 (USD MILLION) 126

9.2.1 US 126

9.2.1.1 US accounted for major share of North American smart container market 126

TABLE 90 SMART CONTAINER MARKET IN US, BY OFFERING, 2018-2021 (USD MILLION) 127

TABLE 91 SMART CONTAINER MARKET FOR IN US, BY OFFERING, 2022-2027 (USD MILLION) 127

TABLE 92 SMART CONTAINER MARKET IN US, BY VERTICAL, 2018-2021 (USD MILLION) 127

TABLE 93 SMART CONTAINER MARKET FOR IN US, BY VERTICAL, 2022-2027 (USD MILLION) 128

9.2.2 CANADA 128

9.2.2.1 Increased activities in agriculture and food export to drive market growth 128

TABLE 94 SMART CONTAINER MARKET IN CANADA, BY OFFERING, 2018-2021 (USD MILLION) 129

TABLE 95 SMART CONTAINER MARKET FOR IN CANADA, BY OFFERING, 2022-2027 (USD MILLION) 129

TABLE 96 SMART CONTAINER MARKET IN CANADA, BY VERTICAL, 2018-2021 (USD MILLION) 129

TABLE 97 SMART CONTAINER MARKET FOR IN CANADA, BY VERTICAL, 2022-2027 (USD MILLION) 130

9.2.3 MEXICO 130

9.2.3.1 Smart container market in Mexico to grow at highest CAGR 130

TABLE 98 SMART CONTAINER MARKET IN MEXICO, BY OFFERING, 2018-2021 (USD MILLION) 130

TABLE 99 SMART CONTAINER MARKET FOR IN MEXICO, BY OFFERING, 2022-2027 (USD MILLION) 131

TABLE 100 SMART CONTAINER MARKET IN MEXICO, BY VERTICAL, 2018-2021 (USD MILLION) 131

TABLE 101 SMART CONTAINER MARKET FOR IN MEXICO, BY VERTICAL, 2022-2027 (USD MILLION) 131

9.3 EUROPE 132

FIGURE 48 EUROPE SMART CONTAINER MARKET, BY COUNTRY 132

FIGURE 49 EUROPE: SMART CONTAINER MARKET SNAPSHOT (2021) 133

TABLE 102 SMART CONTAINER MARKET IN EUROPE, BY COUNTRY, 2018-2021 (USD MILLION) 133

TABLE 103 SMART CONTAINER MARKET IN EUROPE, BY COUNTRY, 2022-2027 (USD MILLION) 134

TABLE 104 SMART CONTAINER MARKET IN EUROPE, BY VERTICAL, 2018-2021 (USD MILLION) 134

TABLE 105 SMART CONTAINER MARKET IN EUROPE, BY VERTICAL, 2022-2027 (USD MILLION) 134

TABLE 106 SMART CONTAINER MARKET IN EUROPE, BY OFFERING, 2018-2021 (USD MILLION) 135

TABLE 107 SMART CONTAINER MARKET IN EUROPE, BY OFFERING, 2022-2027 (USD MILLION) 135

9.3.1 GERMANY 135

9.3.1.1 Increased trade activities in regional food & beverages industry to drive market 135

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TABLE 108 SMART CONTAINER MARKET IN GERMANY, BY OFFERING, 2018-2021 (USD MILLION) 136

TABLE 109 SMART CONTAINER MARKET FOR IN GERMANY, BY OFFERING, 2022-2027 (USD MILLION) 136

TABLE 110 SMART CONTAINER MARKET IN GERMANY, BY VERTICAL, 2018-2021 (USD MILLION) 136

TABLE 111 SMART CONTAINER MARKET FOR IN GERMANY, BY VERTICAL, 2022-2027 (USD MILLION) 137

9.3.2 FRANCE 137

9.3.2.1 Chemicals and pharmaceuticals verticals to create demand for smart containers 137

TABLE 112 SMART CONTAINER MARKET IN FRANCE, BY OFFERING, 2018-2021 (USD MILLION) 137

TABLE 113 SMART CONTAINER MARKET FOR IN FRANCE, BY OFFERING, 2022-2027 (USD MILLION) 138

TABLE 114 SMART CONTAINER MARKET IN FRANCE, BY VERTICAL, 2018-2021 (USD MILLION) 138

TABLE 115 SMART CONTAINER MARKET FOR IN FRANCE, BY VERTICAL, 2022-2027 (USD MILLION) 138

9.3.3 UK 139

9.3.3.1 High demand for smart container solutions in food & beverages vertical to drive market growth 139

TABLE 116 SMART CONTAINER MARKET IN UK, BY OFFERING, 2018-2021 (USD MILLION) 139

TABLE 117 SMART CONTAINER MARKET FOR IN UK, BY OFFERING, 2022-2027 (USD MILLION) 139

TABLE 118 SMART CONTAINER MARKET IN UK, BY VERTICAL, 2018-2021 (USD MILLION) 140

TABLE 119 SMART CONTAINER MARKET FOR IN UK, BY VERTICAL, 2022-2027 (USD MILLION) 140

9.3.4 ITALY 141

9.3.4.1 Rapid rise in export of chemicals to drive demand 141

TABLE 120 SMART CONTAINER MARKET IN ITALY, BY OFFERING, 2018-2021 (USD MILLION) 141

TABLE 121 SMART CONTAINER MARKET FOR IN ITALY, BY OFFERING, 2022-2027 (USD MILLION) 141

TABLE 122 SMART CONTAINER MARKET IN ITALY, BY VERTICAL, 2018-2021 (USD MILLION) 141

TABLE 123 SMART CONTAINER MARKET FOR IN ITALY, BY VERTICAL, 2022-2027 (USD MILLION) 142

9.3.5 REST OF EUROPE 142

9.3.5.1 Rest of Europe to witness high growth in smart container adoption 142

TABLE 124 SMART CONTAINER MARKET IN REST OF EUROPE, BY OFFERING, 2018-2021 (USD MILLION) 142

TABLE 125 SMART CONTAINER MARKET FOR IN REST OF EUROPE, BY OFFERING, 2022-2027 (USD MILLION) 143

TABLE 126 SMART CONTAINER MARKET IN REST OF EUROPE, BY VERTICAL, 2018-2021 (USD MILLION) 143

TABLE 127 SMART CONTAINER MARKET FOR IN REST OF EUROPE, BY VERTICAL, 2022-2027 (USD MILLION) 143

9.4 ASIA PACIFIC 144

FIGURE 50 ASIA PACIFIC SMART CONTAINER MARKET, BY COUNTRY 144

FIGURE 51 ASIA PACIFIC: SMART CONTAINER MARKET SNAPSHOT (2021) 145

TABLE 128 SMART CONTAINER MARKET IN ASIA PACIFIC, BY COUNTRY, 2018-2021 (USD MILLION) 145

TABLE 129 SMART CONTAINER MARKET IN ASIA PACIFIC, BY COUNTRY, 2022-2027 (USD MILLION) 146

TABLE 130 SMART CONTAINER MARKET IN ASIA PACIFIC, BY VERTICAL, 2018-2021 (USD MILLION) 146

TABLE 131 SMART CONTAINER MARKET IN ASIA PACIFIC, BY VERTICAL, 2022-2027 (USD MILLION) 146

TABLE 132 SMART CONTAINER MARKET IN ASIA PACIFIC, BY OFFERING, 2018-2021 (USD MILLION) 147

TABLE 133 SMART CONTAINER MARKET IN ASIA PACIFIC, BY OFFERING, 2022-2027 (USD MILLION) 147

9.4.1 CHINA 147

9.4.1.1 Proliferation of trade practices to drive market growth 147

TABLE 134 SMART CONTAINER MARKET IN CHINA, BY OFFERING, 2018-2021 (USD MILLION) 148

TABLE 135 SMART CONTAINER MARKET FOR IN CHINA, BY OFFERING, 2022-2027 (USD MILLION) 148

TABLE 136 SMART CONTAINER MARKET IN CHINA, BY VERTICAL, 2018-2021 (USD MILLION) 148

TABLE 137 SMART CONTAINER MARKET FOR IN CHINA, BY VERTICAL, 2022-2027 (USD MILLION) 149

9.4.2 JAPAN 149

9.4.2.1 Smart container market for oil & gas vertical in Japan to witness rapid growth 149

TABLE 138 SMART CONTAINER MARKET IN JAPAN, BY OFFERING, 2018-2021 (USD MILLION) 149

TABLE 139 SMART CONTAINER MARKET FOR IN JAPAN, BY OFFERING, 2022-2027 (USD MILLION) 150

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TABLE 140	SMART CONTAINER MARKET IN JAPAN, BY VERTICAL, 2018-2021 (USD MILLION)	150
TABLE 141	SMART CONTAINER MARKET FOR IN JAPAN, BY VERTICAL, 2022-2027 (USD MILLION)	150
9.4.3	INDIA	151
9.4.3.1	Rise in trade activities in pharmaceuticals sector to drive market growth	151
TABLE 142	SMART CONTAINER MARKET IN INDIA, BY OFFERING, 2018-2021 (USD MILLION)	151
TABLE 143	SMART CONTAINER MARKET FOR IN INDIA, BY OFFERING, 2022-2027 (USD MILLION)	151
TABLE 144	SMART CONTAINER MARKET IN INDIA, BY VERTICAL, 2018-2021 (USD MILLION)	151
TABLE 145	SMART CONTAINER MARKET FOR IN INDIA, BY VERTICAL, 2022-2027 (USD MILLION)	152
9.4.4	AUSTRALIA	152
9.4.4.1	Food & beverages vertical to provide growth opportunities for market	152
TABLE 146	SMART CONTAINER MARKET IN AUSTRALIA, BY OFFERING, 2018-2021 (USD MILLION)	152
TABLE 147	SMART CONTAINER MARKET FOR IN AUSTRALIA, BY OFFERING, 2022-2027 (USD MILLION)	153
TABLE 148	SMART CONTAINER MARKET IN AUSTRALIA, BY VERTICAL, 2018-2021 (USD MILLION)	153
TABLE 149	SMART CONTAINER MARKET FOR IN AUSTRALIA, BY VERTICAL, 2022-2027 (USD MILLION)	153
9.4.5	REST OF ASIA PACIFIC	154
9.4.5.1	Growth in chemicals and pharmaceuticals industries to fuel demand	154
TABLE 150	SMART CONTAINER MARKET IN REST OF ASIA PACIFIC, BY OFFERING, 2018-2021 (USD MILLION)	154
TABLE 151	SMART CONTAINER MARKET FOR IN REST OF ASIA PACIFIC, BY OFFERING, 2022-2027 (USD MILLION)	154
TABLE 152	SMART CONTAINER MARKET IN REST OF ASIA PACIFIC, BY VERTICAL, 2018-2021 (USD MILLION)	154
TABLE 153	SMART CONTAINER MARKET FOR IN REST OF ASIA PACIFIC, BY VERTICAL, 2022-2027 (USD MILLION)	155
9.5	REST OF THE WORLD (ROW)	155
FIGURE 52	SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY	156
FIGURE 53	REST OF THE WORLD: SMART CONTAINER MARKET SNAPSHOT (2021)	156
TABLE 154	SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY, 2018-2021 (USD MILLION)	157
TABLE 155	SMART CONTAINER MARKET IN REST OF THE WORLD, BY COUNTRY, 2022-2027 (USD MILLION)	157
TABLE 156	SMART CONTAINER MARKET IN REST OF THE WORLD, BY VERTICAL, 2018-2021 (USD MILLION)	157
TABLE 157	SMART CONTAINER MARKET IN REST OF THE WORLD, BY VERTICAL, 2022-2027 (USD MILLION)	158
TABLE 158	SMART CONTAINER MARKET IN REST OF THE WORLD, BY OFFERING, 2018-2021 (USD MILLION)	158
TABLE 159	SMART CONTAINER MARKET IN REST OF THE WORLD, BY OFFERING, 2022-2027 (USD MILLION)	158
9.5.1	MIDDLE EAST & AFRICA	159
9.5.1.1	Oil & gas export to drive smart container demand	159
TABLE 160	SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY OFFERING, 2018-2021 (USD MILLION)	159
TABLE 161	SMART CONTAINER MARKET FOR IN MIDDLE EAST & AFRICA, BY OFFERING, 2022-2027 (USD MILLION)	159
TABLE 162	SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY VERTICAL, 2018-2021 (USD MILLION)	160
TABLE 163	SMART CONTAINER MARKET IN MIDDLE EAST & AFRICA, BY VERTICAL, 2022-2027 (USD MILLION)	160
9.5.2	SOUTH AMERICA	161
9.5.2.1	Market to witness high growth driven by food & beverages vertical	161
TABLE 164	SMART CONTAINER MARKET IN SOUTH AMERICA, BY OFFERING, 2018-2021 (USD MILLION)	161
TABLE 165	SMART CONTAINER MARKET FOR IN SOUTH AMERICA, BY OFFERING, 2022-2027 (USD MILLION)	161
TABLE 166	SMART CONTAINER MARKET IN SOUTH AMERICA, BY VERTICAL, 2018-2021 (USD MILLION)	161
TABLE 167	SMART CONTAINER MARKET IN SOUTH AMERICA, BY VERTICAL, 2022-2027 (USD MILLION)	162
10	COMPETITIVE LANDSCAPE	163
10.1	INTRODUCTION	163
10.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	163
10.3	MARKET EVALUATION FRAMEWORK	163
10.3.1	PRODUCT PORTFOLIO	165
10.3.2	REGIONAL FOCUS	165

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10.3.3	ORGANIC/INORGANIC PLAY	165
10.4	MARKET SHARE ANALYSIS OF TOP PLAYERS, 2021	165
TABLE 168	GLOBAL SMART CONTAINER MARKET: MARKET SHARE ANALYSIS	166
10.5	COMPETITIVE EVALUATION QUADRANT, 2021	168
10.5.1	STARS	168
10.5.2	EMERGING LEADERS	168
10.5.3	PERVASIVE PLAYERS	168
10.5.4	PARTICIPANTS	168
FIGURE 54	SMART CONTAINER MARKET (GLOBAL): COMPANY EVALUATION QUADRANT, 2021	169
10.6	SMALL AND MEDIUM-SIZED ENTERPRISES (SMES): EVALUATION QUADRANT, 2021	170
10.6.1	PROGRESSIVE COMPANIES	170
10.6.2	RESPONSIVE COMPANIES	170
10.6.3	DYNAMIC COMPANIES	170
10.6.4	STARTING BLOCKS	170
FIGURE 55	SMART CONTAINER MARKET (GLOBAL): SMES EVALUATION QUADRANT, 2021	171
?		
10.7	SMART CONTAINER MARKET: COMPANY FOOTPRINT	172
TABLE 169	COMPANY PRODUCT FOOTPRINT (12 COMPANIES)	172
TABLE 170	COMPANY TECHNOLOGY FOOTPRINT (10 COMPANIES)	172
TABLE 171	COMPANY INDUSTRY FOOTPRINT (10 COMPANIES)	173
TABLE 172	COMPANY REGIONAL FOOTPRINT (10 COMPANIES)	174
TABLE 173	COMPANY FOOTPRINT (10 COMPANIES)	174
10.8	SMART CONTAINER MARKET: SMES MATRIX	175
TABLE 174	SMART CONTAINER MARKET: DETAILED LIST OF KEY SMES	175
TABLE 175	SMART CONTAINER MARKET: COMPETITIVE BENCHMARKING OF KEY SMES	176
10.9	COMPETITIVE SITUATIONS AND TRENDS	177
10.9.1	PRODUCT LAUNCHES	177
TABLE 176	SMART CONTAINER MARKET: PRODUCT LAUNCHES	177
10.9.2	DEALS	179
TABLE 177	SMART CONTAINER MARKET: DEALS	179
10.9.3	OTHERS	180
TABLE 178	OTHER DEVELOPMENTS	180
11	COMPANY PROFILES	182
11.1	INTRODUCTION	182
	(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*	
11.2	KEY PLAYERS	183
11.2.1	ORBCOMM INC.	183
TABLE 179	ORBCOMM INC.: BUSINESS OVERVIEW	184
FIGURE 56	ORBCOMM INC.: COMPANY SNAPSHOT	184
11.2.2	SKYCELL AG	189
TABLE 180	SKYCELL AG: BUSINESS OVERVIEW	189
11.2.3	TRAXENS	192
TABLE 181	TRAXENS: BUSINESS OVERVIEW	192
11.2.4	PHILLIPS CONNECT	195
TABLE 182	PHILLIPS CONNECT: BUSINESS OVERVIEW	195
11.2.5	GLOBE TRACKER	198
TABLE 183	GLOBE TRACKER: BUSINESS OVERVIEW	198

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11.2.6 NEXXIOT AG 201

TABLE 184 NEXXIOT AG: BUSINESS OVERVIEW 201

11.2.7 SEALAND - A MAERSK COMPANY 204

TABLE 185 SEALAND - A MAERSK COMPANY: BUSINESS OVERVIEW 204

FIGURE 57 AP MOLLER - MAERSK: COMPANY SNAPSHOT 205

11.2.8 MSC 207

TABLE 186 MSC: BUSINESS OVERVIEW 207

11.2.9 AMBROSUS 209

TABLE 187 AMBROSUS: BUSINESS OVERVIEW 209

11.2.10 ZILLIONSOURCE TECHNOLOGIES 211

TABLE 188 ZILLIONSOURCE TECHNOLOGIES: BUSINESS OVERVIEW 211

11.2.11 BERLINGER & CO. AG 213

TABLE 189 BERLINGER & CO. AG: BUSINESS OVERVIEW 213

11.2.12 SHENZHEN CIMC TECHNOLOGY CO., LTD. (CIMC HITECH) 216

TABLE 190 SHENZHEN CIMC TECHNOLOGY CO., LTD.: BUSINESS OVERVIEW 216

\*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 219

11.3.1 LOGINNO 219

11.3.2 SAVVY TELEMATIC SYSTEMS AG 220

11.3.3 SENSOLUS 221

11.3.4 SECURESYSTEM GMBH 222

11.3.5 IBM 222

11.3.6 EMERSON ELECTRIC CO. 223

11.3.7 SENSITECH INC. 224

11.3.8 ARVIEM AG 225

11.3.9 AKUA 226

11.3.10 MONNIT CORPORATION 227

11.3.11 HYPERTHINGS 228

11.3.12 PURFRESH TRANSPORT 229

11.3.13 AELER TECHNOLOGIES SA 230

12 ADJACENT & RELATED MARKETS 231

12.1 INTRODUCTION 231

12.2 LIMITATIONS 231

12.3 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE 231

TABLE 191 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE, 2017-2020 (USD MILLION) 231

TABLE 192 COLD CHAIN MONITORING MARKET, BY TEMPERATURE TYPE, 2021-2026 (USD MILLION) 231

12.3.1 FROZEN 232

12.3.1.1 Frozen segment to continue to hold larger share of cold chain monitoring market during forecast period 232

12.3.2 CHILLED 232

12.3.2.1 Chilled segment to grow at higher CAGR during forecast period 232

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