

Modular Data Center Market by Component (Solutions (All-in-One Modules and Individual Modules) and Services), Organization Size, Vertical (BFSI, IT & Telecom, Media & Entertainment, Healthcare) and Region - Global Forecast to 2030

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Report description:

The modular data center market size is expected to grow from USD 23.0 billion in 2022 to USD 88.5 billion by 2030 at a Compound Annual Growth Rate (CAGR) of 18.4% during the forecast period. Modular data centers basically are standardized, pre-configured, and integrated data center units. These are designed with a focus on lower-cost pre-existing warehouses or outdoor locations (colocation facilities). Prefabricated modular data centers are quick to set up, more predictable in operation, replacement, carrying out upgrades, maintenance, often at a lower cost than traditional stick-built data centers. When we consider building data infrastructure, modular data centers can be a cost-effective option. Modular data centers are recommended for scalability since they can be used to provide data infrastructure as needed rather than requiring large-scale investment. Individual module segment to have significant growth during the forecast period

This module comprises of separate modules built for specific purposes and deployed in a new or pre-existing modular data center. Individual modules are adopted and used by enterprises in order to expand and enhance their data center functionalities. Inclusion of this module allows separation of maintenance personnel which in turn makes redundant human error negligible. Using multiple individual modules, complex and larger installations can be achieved quickly and easily. Individual modules that have been predefined allow for the plug-and-play installation of entire data center infrastructures. Network and server enclosures, cooling, power distribution, and backup, as well as monitoring and Data Center Infrastructure Management (DCIM) software, are all included in the modules. These utilities and advantages of individual modules boost this segment's growth.

IT and Telecom vertical to hold the second largest market size during the forecast period

The IT & telecom industry requires high data security, integrated physical security, and productivity. The sector is booming due to the large-scale growth in mobile subscribers and data penetration. Telecom service providers are investing largely in modular data center construction and colocations, as modular data centers are portable, flexible, reliable, and store huge amounts of data.

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Modular data centers provide comprehensive solutions for managing all the data needs of the IT & telecom sector by providing secure and high-speed deployment. The high rise in online web pages and video content delivered through high-speed data by telecom service providers to internet-enabled devices has increased data traffic.

Modular data center market in Asia Pacific to grow at the highest CAGR during the forecast period

Asia Pacific is expected to be the world's fastest modular data center market and is projected to grow at the highest CAGR during the forecast period. The region is witnessing heavy demand for modular data center solutions. The potential benefits of modular data centers are the key growth drivers of the increasing adoption in the region. The growing number of cloud service providers is also expected to contribute to the growth of the Asia Pacific modular data center market. Moreover, other Asia Pacific countries, including India, China, Japan, Australia, and New Zealand, are also expected to contribute significantly to the growth in the number of modular data center market in the region over the coming years. The growing economy and rising adoption of various technologies, such as edge computing, IoT, and Industry 4.0, are expected to drive the need for storing and computing real-time data locally, eventually increasing the demand for reliable and efficient modular data center solutions. The rapid growth of social media and the gaming sector in the Asia Pacific region has further increased the demand for explicitly scalable and flexible architecture capable of handling complex operations. This demand can be met by the effective deployment of modular data center solutions, hence contributing to the growth of the Asia Pacific market.

Further, in-depth interviews were conducted with the Chief Executive Officers (CEOs), Chief Marketing Officers (CMO), Chief Technology Officers (CTOs), Chief Operating Officers (COOs), Vice Presidents (VPs), Managing Directors (MDs), technology and innovation directors, and related key executives from various key companies and organizations operating in the modular data center market.

-□By Company - Tier 1-33%, Tier 2-41%, and Tier 3-26%

-□By Designation - C-Level-47%, Director Level-35%, and Others-18%

-□By Region - North America-49%, Europe-29%, Asia Pacific-17%, RoW - 5%

The modular data center market comprises major solution providers, such as DELL Technologies (US), Vertiv Co. (US), Hewlett Packard Enterprises (US), Huawei Technologies Co. Ltd. (China), International Business Machines Corporation (US), BaseLayer Technology, LLC. (US), Eltek AS (Norway), Cannon Technologies Ltd. (UK), Oracle (US), Microsoft (US), AWS (US), Meta (US), Apple (US), Rittal GmbH & Co. KG (Germany), BladeRoom Group Ltd (UK), Edge Mission Critical Systems LLC (US), Eaton Corporate PLC (Ireland), Rahi Systems Pvt Ltd. (US), STULZ GmbH (Germany), Fiberhome Networks (China), ScaleMatrix Holdings Inc. (US), Schneider Electric SE (France), Cupertino Electric Inc. (US), Shenzhen KSTAR Science and Technology Co. Ltd. (China), Asperitas (Netherlands), Shenzhen CONSONANT Technology Co. Ltd. (China), Retex (Spain), ICTroom Company BV (Netherlands), Box Modul AB (Sweden), and PCX Corporation LLC (US).

The study includes an in-depth competitive analysis of these key players in the modular data center market with their company profiles, recent developments, and key market strategies.

Research Coverage

The research study covered inputs, insights, trends, happenings, from secondary sources, primary sources, stakeholders' interviews and surveys. Secondary sources include information from databases and repositories such as D&B Hoovers, Bloomberg, Factiva, CoinDesk, among others. Primary data was fetched from supply side industry experts who hold the chair of Chief Executive Officer (CEO), Chief Technological Officer (CTO), Chief Operating Officer (COO), Vice-President (VP) of IT, Managing Director (MD), among others. Few of our key primary respondents are HPE, Eaton, Nutanix, Oracle, DELL, among others. Few startups are also included during our primary interviews. Additionally, we have taken information and statistical and historical data from few government associations, public sources, webinar and seminar transcripts, journals, conferences and events .

Key benefits of the report

The report would help the market leaders/new entrants in this market with information on the nearest and best possible accurate approximations of the revenue numbers for the overall modular data center market and the subsegments therein. This report would help stakeholders understand the competitive landscape wherein we have a section that provides competitive benchmarking, and gain insights to better position their businesses and plan suitable go-to-market strategies. Industry experts who have long served this market including both large-sized and SMEs have provided both qualitative and quantitative insights, critical and crucial data, which would also assist businesses in qualifying the suspects and prospects. The report also helps

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stakeholders understand the pulse of the market and provides them with information on the key market drivers, restraints, challenges, and opportunities, thereby portraying a clear and vivid image of methods and measures to excel in this market and position self at the zenith along with top players in the segment, sub-segment and the market as a whole.

Table of Contents:

1 INTRODUCTION 43

1.1 STUDY OBJECTIVES 43

1.2 MARKET DEFINITION 43

1.2.1 INCLUSIONS & EXCLUSIONS 44

1.3 MARKET SCOPE 44

1.3.1 MARKET SEGMENTATION 45

FIGURE 1 MODULAR DATA CENTER MARKET SEGMENTATION 45

1.3.2 REGIONS COVERED 45

1.3.3 YEARS CONSIDERED 46

1.4 CURRENCY CONSIDERED 46

TABLE 1 USD EXCHANGE RATE, 2017-2021 46

1.5 STAKEHOLDERS 47

1.6 SUMMARY OF CHANGES 47

2 RESEARCH METHODOLOGY 48

2.1 RESEARCH DATA 48

FIGURE 2 MODULAR DATA CENTER MARKET: RESEARCH DESIGN 49

2.1.1 SECONDARY DATA 49

2.1.2 PRIMARY DATA 50

TABLE 2 LIST OF KEY PRIMARY INTERVIEW PARTICIPANTS 50

2.1.2.1 Breakdown of primaries 51

FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION 51

2.1.2.2 Key industry insights 51

2.2 MARKET BREAKUP AND DATA TRIANGULATION 52

FIGURE 4 DATA TRIANGULATION 52

2.3 MARKET SIZE ESTIMATION 53

FIGURE 5 MODULAR DATA CENTER MARKET: TOP-DOWN AND BOTTOM-UP APPROACHES 53

2.3.1 TOP-DOWN APPROACH 54

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (TOP-DOWN) REVENUE GENERATION FROM MODULAR DATA CENTER VENDORS 54

2.3.2 BOTTOM-UP APPROACH 54

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (BOTTOM-UP) 55

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH FROM SUPPLY SIDE - COLLECTIVE REVENUE OF VENDORS 56

FIGURE 9 ILLUSTRATIVE EXAMPLE OF REVENUE ESTIMATION 57

FIGURE 10 MARKET SIZE ESTIMATION METHODOLOGY: CAGR PROJECTIONS FROM SUPPLY SIDE 58

2.4 MARKET FORECAST 58

TABLE 3 FACTOR ANALYSIS 58

2.5 ASSUMPTIONS 59

2.6 LIMITATIONS 61

3 EXECUTIVE SUMMARY 62

FIGURE 11 MODULAR DATA CENTER MARKET: GLOBAL SNAPSHOT 62

FIGURE 12 HIGH-GROWTH SEGMENTS IN MODULAR DATA CENTER MARKET 63

FIGURE 13	INDIVIDUAL MODULES SEGMENT TO HOLD LARGER MARKET SIZE BY 2030	63
FIGURE 14	TOP VERTICALS IN MODULAR DATA CENTER MARKET, 2022 VS. 2030	64
FIGURE 15	MODULAR DATA CENTER MARKET: REGIONAL SNAPSHOT	65
4	PREMIUM INSIGHTS	66
4.1	MODULAR DATA CENTER MARKET: BRIEF OVERVIEW	66
FIGURE 16	DATA CENTER MODERNIZATION AND COST REDUCTION TO DRIVE GROWTH	66
4.2	MODULAR DATA CENTER MARKET, BY COMPONENT, 2022	67
FIGURE 17	SOLUTIONS SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE IN 2022	67
4.3	MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022 VS. 2030	67
FIGURE 18	INDIVIDUAL MODULES SEGMENT TO ACCOUNT FOR LARGER SHARE BY 2030	67
4.4	MODULAR DATA CENTER MARKET, BY SERVICES, 2022 VS. 2030	68
FIGURE 19	SUPPORT & MAINTENANCE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2030	68
4.5	MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022	68
FIGURE 20	LARGE ENTERPRISES SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE IN 2022	68
4.6	MODULAR DATA CENTER MARKET, BY VERTICAL, 2022 VS. 2030	69
FIGURE 21	BFSI VERTICAL TO ACCOUNT FOR LARGEST MARKET SHARE BY 2030	69
4.7	MODULAR DATA CENTER MARKET: REGIONAL SCENARIO, 2022-2030	69
FIGURE 22	ASIA PACIFIC TO EMERGE AS BEST MARKET FOR INVESTMENTS IN NEXT EIGHT YEARS	69
5	MARKET OVERVIEW AND INDUSTRY TRENDS	70
5.1	MARKET DYNAMICS	70
FIGURE 23	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES: MODULAR DATA CENTER MARKET	70
5.1.1	DRIVERS	71
5.1.1.1	Increased demand for rapidly scalable and deployable data centers	71
FIGURE 24	CONSTRUCTION TIMELINE OF MODULAR AND TRADITIONAL DATA CENTERS	71
5.1.1.2	Growing need for energy-efficient data centers	71
5.1.1.3	Easy implementation of redundant data centers	72
5.1.1.4	Easy compliance in modular data centers	72
5.1.1.5	Proliferation of data center colocation facilities globally	73
5.1.1.6	Data center optimization initiatives to address critical infrastructure inefficiencies	73
5.1.2	RESTRAINTS	73
5.1.2.1	Transportation of modular data centers	73
TABLE 4	ROADWAY TRANSPORTATION WEIGHT AND SIZE LIMITS	74
5.1.2.2	Vendor lock-ins limit buying options	74
5.1.2.3	Emergence of HCI	74
5.1.3	OPPORTUNITIES	74
5.1.3.1	Deployment in disaster-prone areas	74
TABLE 5	NEMA ENCLOSURE RATINGS	75
5.1.3.2	Demand from colocation providers for modular data centers	75
5.1.3.3	Demand for data centers on the Moon	76
5.1.3.4	Demand for underwater data centers	76
5.1.3.5	Demand for data centers in space	76
5.1.3.6	Establishment of data centers in Iceland	76
5.1.4	CHALLENGES	77
5.1.4.1	Implementing effective cooling systems	77
TABLE 6	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS THERMAL GUIDELINE VALUES	77
5.1.4.2	Reliance on PUE as sole efficiency measure	77
5.2	PORTER'S FIVE FORCES ANALYSIS	78

FIGURE 25	MODULAR DATA CENTER MARKET: PORTER'S FIVE FORCES ANALYSIS	78
TABLE 7	MODULAR DATA CENTER MARKET: PORTER'S FIVE FORCES ANALYSIS	78
5.2.1	THREAT OF NEW ENTRANTS	79
5.2.2	THREAT OF SUBSTITUTES	79
5.2.3	BARGAINING POWER OF SUPPLIERS	79
5.2.4	BARGAINING POWER OF BUYERS	79
5.2.5	DEGREE OF COMPETITION	79
5.3	KEY STAKEHOLDERS & BUYING CRITERIA	80
5.3.1	KEY STAKEHOLDERS IN BUYING PROCESS	80
FIGURE 26	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP END USERS	80
TABLE 8	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP END USERS (%)	80
5.3.2	BUYING CRITERIA	80
FIGURE 27	KEY BUYING CRITERIA FOR TOP END USERS	81
TABLE 9	KEY BUYING CRITERIA FOR TOP END USERS	81
5.4	MODULAR DATA CENTER: ADOPTION TREND BY CLOUD PROVIDERS	81
TABLE 10	LIST OF MAJOR CLOUD PROVIDERS	82
5.5	TREND ANALYSIS: MODULAR DATA CENTER PROVIDERS AND OPERATORS	82
5.5.1	INSIGHTS ON KEY DATA CENTER MANUFACTURERS	83
5.5.2	INSIGHTS ON KEY DATA CENTER OPERATORS	84
5.6	VALUE CHAIN	85
FIGURE 28	MODULAR DATA CENTER MARKET: VALUE CHAIN	85
5.7	ECOSYSTEM	86
FIGURE 29	MODULAR DATA CENTER MARKET: ECOSYSTEM	87
TABLE 11	MODULAR DATA CENTER MARKET: ECOSYSTEM	87
5.8	TECHNOLOGICAL ANALYSIS	89
5.8.1	TECHNOLOGY TO DEPLOY MODULAR DATA CENTERS	89
5.8.1.1	Deployment advancements with pod-based approach to data centers	89
5.8.2	TECHNOLOGIES IN UNINTERRUPTED POWER SUPPLY	89
5.8.2.1	Online double conversion technology	89
5.8.2.2	Offline standby technology	89
5.8.2.3	Line-interactive technology	90
5.8.3	TECHNOLOGIES IN POWER DISTRIBUTION UNITS	90
5.8.3.1	Intelligent power distribution units/Smart power distribution units	90
5.8.3.1.1	Monitored power distribution units	90
5.8.3.1.2	Switched power distribution units	90
5.8.4	TECHNOLOGIES IN MONITORING	90
5.8.4.1	Data center infrastructure management	90
5.8.5	TECHNOLOGIES IN COOLING AND THERMAL MANAGEMENT	91
5.8.5.1	In-rack cooling	91
5.8.5.2	Air cooling	91
5.8.5.3	Liquid cooling	91
5.8.5.4	Fire suppression	92
5.8.6	OTHER INNOVATIVE TECHNOLOGIES IN MODULAR DATA CENTERS	92
5.8.6.1	Smart Materials in Manufacturing	92
5.8.6.2	IPv6	92
5.8.6.3	Solid State Drives	92
5.8.6.4	Bare Metal Hypervisors	93

5.9	PRICING ANALYSIS	93
5.9.1	AVERAGE SELLING PRICE TREND	93
TABLE 12	PRICING ANALYSIS OF MODULAR DATA CENTER VENDORS (1/2)	94
TABLE 13	PRICING ANALYSIS OF MODULAR DATA CENTER VENDORS (2/2)	94
5.10	CASE STUDY ANALYSIS	95
5.10.1	CASE STUDY 1: ENERGY	95
5.10.2	CASE STUDY 2: IT	95
5.10.3	CASE STUDY 3: AEROSPACE	96
5.10.4	CASE STUDY 4: WHOLESALE	97
5.11	PATENT ANALYSIS	98
FIGURE 30	NUMBER OF PATENTS PUBLISHED, 2011-2021	98
FIGURE 31	TOP PATENT OWNERS (GLOBAL)	98
5.12	REGULATORY LANDSCAPE	99
5.12.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	99
TABLE 14	NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	99
TABLE 15	EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	100
TABLE 16	ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	100
TABLE 17	REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	100
5.12.2	KEY ASSOCIATIONS AND REGULATORY STANDARDS	101
5.12.2.1	American National Standards Institute	101
5.12.2.2	International Organization for Standardization	101
5.12.2.3	European Standards	101
5.12.2.4	Uptime Institute	101
5.12.2.5	ENERGY STAR-certified Products	101
5.12.2.6	National Electrical Manufacturers Association (NEMA)	102
5.12.2.7	Canadian Standards Association (CSA) Group	102
5.12.2.8	Electronics Industries Alliance (EIA)	102
5.12.2.9	Telecommunications Industry Association (TIA)	102
5.12.2.10	Leadership in Energy and Environmental Design (LEED)	102
5.12.2.11	Open Compute Project (OCP)	102
5.12.2.12	Underwriters Laboratories (UL)	103
5.13	TRENDS/DISRUPTIONS IMPACTING BUYERS	103
FIGURE 32	TRENDS/DISRUPTIONS IMPACTING BUYERS	103
5.14	KEY CONFERENCES AND EVENTS IN 2022-2023	103
TABLE 18	MODULAR DATA CENTER MARKET: DETAILED LIST OF CONFERENCES AND EVENTS, 2022-2023	103
6	MODULAR DATA CENTER MARKET, BY COMPONENT	105
6.1	INTRODUCTION	106
6.1.1	COMPONENT: MODULAR DATA CENTER MARKET DRIVERS	106
FIGURE 33	SOLUTIONS TO HOLD LARGER MARKET SIZE IN 2022	106
TABLE 19	MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	107
TABLE 20	MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	107
6.2	SOLUTIONS	107
6.2.1	NEED FOR FLEXIBLE AND EFFICIENT INFRASTRUCTURE TO SUPPORT MODERN DATA CENTERS	107
TABLE 21	SOLUTIONS MARKET, BY REGION, 2016-2021 (USD MILLION)	107
TABLE 22	SOLUTIONS MARKET, BY REGION, 2022-2030 (USD MILLION)	108
6.3	SERVICES	108
6.3.1	HIGHER SPENDING ON MAINTENANCE SERVICES TO REDUCE DATA CENTER DOWNTIME	108

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TABLE 23	SERVICES MARKET, BY REGION, 2016-2021 (USD MILLION)	108
TABLE 24	SERVICES MARKET, BY REGION, 2022-2030 (USD MILLION)	109
7	MODULAR DATA CENTER MARKET, BY SOLUTIONS	110
7.1	INTRODUCTION	111
7.1.1	SOLUTIONS: MODULAR DATA CENTER MARKET DRIVERS	111
FIGURE 34	INDIVIDUAL MODULES TO HOLD LARGER MARKET SIZE IN 2022	111
TABLE 25	MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016-2021 (USD MILLION)	111
TABLE 26	MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION)	112
7.2	ALL-IN-ONE MODULES	112
7.2.1	SCALABILITY AND FLEXIBILITY OF IT INFRASTRUCTURE TO ADJUST DESIGN AND SIZE FOR FUTURE DEPLOYMENTS	112
TABLE 27	ALL-IN-ONE MODULES MARKET, BY REGION, 2016-2021 (USD MILLION)	112
TABLE 28	ALL-IN-ONE MODULES MARKET, BY REGION, 2022-2030 (USD MILLION)	113
7.3	INDIVIDUAL MODULES	113
TABLE 29	INDIVIDUAL MODULES MARKET, BY REGION, 2016-2021 (USD MILLION)	113
TABLE 30	INDIVIDUAL MODULES MARKET, BY REGION, 2022-2030 (USD MILLION)	114
TABLE 31	INDIVIDUAL MODULES MARKET, BY TYPE, 2016-2021 (USD MILLION)	114
TABLE 32	INDIVIDUAL MODULES MARKET, BY TYPE, 2022-2030 (USD MILLION)	114
7.3.1	IT MODULES	114
7.3.1.1	Deployment of many units at various levels of data center infrastructure	114
TABLE 33	IT MODULES MARKET, BY REGION, 2016-2021 (USD MILLION)	115
TABLE 34	IT MODULES MARKET, BY REGION, 2022-2030 (USD MILLION)	115
7.3.2	POWER MODULES	115
7.3.2.1	High demand for power modules from countries with irregular power supply	115
TABLE 35	POWER MODULES MARKET, BY REGION, 2016-2021 (USD MILLION)	116
TABLE 36	POWER MODULES MARKET, BY REGION, 2022-2030 (USD MILLION)	116
7.3.3	COOLING MODULES	116
7.3.3.1	Increasing demand to cool data centers	116
TABLE 37	COOLING MODULES MARKET, BY REGION, 2016-2021 (USD MILLION)	117
TABLE 38	COOLING MODULES MARKET, BY REGION, 2022-2030 (USD MILLION)	117
8	MODULAR DATA CENTER MARKET, BY SERVICES	118
8.1	INTRODUCTION	119
8.1.1	SERVICES: MODULAR DATA CENTER MARKET DRIVERS	119
FIGURE 35	SUPPORT & MAINTENANCE TO HOLD THE LARGEST MARKET SIZE IN 2022	120
TABLE 39	MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION)	120
TABLE 40	MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION)	120
8.2	DESIGN & CONSULTING	121
8.2.1	HIGH DEMAND FOR END-TO-END CONSULTATIVE APPROACH FOR INFRASTRUCTURE MODERNIZATION	121
TABLE 41	DESIGN & CONSULTING MARKET, BY REGION, 2016-2021 (USD MILLION)	121
TABLE 42	DESIGN & CONSULTING MARKET, BY REGION, 2022-2030 (USD MILLION)	121
8.3	INTEGRATION & DEPLOYMENT	122
8.3.1	NEED FOR INTEGRATION OF SEPARATE DATA CENTER MODULES AND EFFECTIVE DEPLOYMENT	122
TABLE 43	INTEGRATION & DEPLOYMENT MARKET, BY REGION, 2016-2021 (USD MILLION)	122
TABLE 44	INTEGRATION & DEPLOYMENT MARKET, BY REGION, 2022-2030 (USD MILLION)	122
8.4	SUPPORT & MAINTENANCE	123
8.4.1	HIGH DEMAND FOR REMOTE SUPPORT SERVICES	123
TABLE 45	SUPPORT & MAINTENANCE MARKET, BY REGION, 2016-2021 (USD MILLION)	123
TABLE 46	SUPPORT & MAINTENANCE MARKET, BY REGION, 2022-2030 (USD MILLION)	123

9	MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE	124
9.1	INTRODUCTION	125
9.1.1	ORGANIZATION SIZE: MODULAR DATA CENTER MARKET DRIVERS	125
FIGURE 36	LARGE ENTERPRISES TO HOLD LARGER MARKET SIZE IN 2022	125
TABLE 47	MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	125
TABLE 48	MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	126
9.2	SMES	126
9.2.1	NEED TO DEPLOY DATA CENTERS AT LOWER COST COMPARED TO TRADITIONAL SYSTEMS	126
TABLE 49	SMES: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	126
TABLE 50	SMES: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	127
9.3	LARGE ENTERPRISES	127
9.3.1	NEED FOR EVER-INCREASING DATA STORAGE	127
TABLE 51	LARGE ENTERPRISES: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	127
TABLE 52	LARGE ENTERPRISES: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	128
10	MODULAR DATA CENTER MARKET, BY VERTICAL	129
10.1	INTRODUCTION	130
10.1.1	VERTICAL: MODULAR DATA CENTER MARKET DRIVERS	130
FIGURE 37	BFSI TO HOLD LARGEST MARKET SIZE IN 2022	131
TABLE 53	MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION)	131
TABLE 54	MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION)	132
10.2	BFSI	132
10.2.1	FAST GROWTH OF ELECTRONIC BANKING, PAPERLESS STORAGE, AND VIRTUALIZATION	132
TABLE 55	BFSI: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	133
TABLE 56	BFSI: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	133
10.3	IT & TELECOM	133
10.3.1	HIGH DEMAND FOR DATA SECURITY, INTEGRATED PHYSICAL SECURITY, AND PRODUCTIVITY	133
TABLE 57	IT & TELECOM: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	134
TABLE 58	IT & TELECOM: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	134
10.4	GOVERNMENT & DEFENSE	134
10.4.1	INCREASED AWARENESS OF INFORMATION DIGITALIZATION	134
TABLE 59	GOVERNMENT & DEFENSE: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	135
TABLE 60	GOVERNMENT & DEFENSE: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	135
10.5	HEALTHCARE	135
10.5.1	DEMAND FOR SHIFT OF MANUAL PATIENT RECORDS TO ELECTRONIC STORAGE	135
TABLE 61	HEALTHCARE: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	136
TABLE 62	HEALTHCARE: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	136
10.6	RETAIL	136
10.6.1	NEED TO MAINTAIN CUSTOMER'S PERSONAL, FINANCIAL, AND STOCK DATA	136
TABLE 63	RETAIL: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	137
TABLE 64	RETAIL: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	137
10.7	MEDIA & ENTERTAINMENT	137
10.7.1	NEED FOR MULTIMEDIA STORAGE AND UNINTERRUPTED ACCESS FROM ANYWHERE	137
TABLE 65	MEDIA & ENTERTAINMENT: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	138
TABLE 66	MEDIA & ENTERTAINMENT: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	138
10.8	MANUFACTURING	138
10.8.1	NEED FOR IT SYSTEMS TO STREAMLINE LOGISTICS AND PRODUCTION PROCESSES	138
TABLE 67	MANUFACTURING: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	139

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TABLE 68	MANUFACTURING: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	139
10.9	OTHER VERTICALS	139
TABLE 69	OTHER VERTICALS: MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	140
TABLE 70	OTHER VERTICALS: MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	140
11	MODULAR DATA CENTER MARKET, BY REGION	141
11.1	INTRODUCTION	142
FIGURE 38	ASIA PACIFIC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	142
TABLE 71	MODULAR DATA CENTER MARKET, BY REGION, 2016-2021 (USD MILLION)	142
TABLE 72	MODULAR DATA CENTER MARKET, BY REGION, 2022-2030 (USD MILLION)	143
11.2	NORTH AMERICA	143
11.2.1	NORTH AMERICA: MODULAR DATA CENTER MARKET DRIVERS	143
FIGURE 39	NORTH AMERICA: MARKET SNAPSHOT	144
TABLE 73	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	144
TABLE 74	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	145
TABLE 75	NORTH AMERICA: MODULAR DATA CENTER MARKET SIZE, BY SOLUTIONS, 2016-2021 (USD MILLION)	145
TABLE 76	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION)	145
TABLE 77	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2016-2021 (USD MILLION)	145
TABLE 78	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2022-2030 (USD MILLION)	146
TABLE 79	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION)	146
TABLE 80	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION)	146
TABLE 81	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	146
TABLE 82	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	147
TABLE 83	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION)	147
TABLE 84	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION)	147
TABLE 85	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2016-2021 (USD MILLION)	148
TABLE 86	NORTH AMERICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2022-2030 (USD MILLION)	148
11.2.2	US	148
11.2.2.1	High demand for energy-efficient solutions	148
TABLE 87	US: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	149
TABLE 88	US: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	149
TABLE 89	US: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	149
TABLE 90	US: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	149
11.2.3	CANADA	150
11.2.3.1	Need for advanced technological tools, cloud platforms, and various other on-demand services	150
TABLE 91	CANADA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	150
TABLE 92	CANADA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	150
TABLE 93	CANADA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	150
TABLE 94	CANADA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	151
11.3	EUROPE	151
11.3.1	EUROPE: MODULAR DATA CENTER MARKET DRIVERS	151
TABLE 95	EUROPE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	152
TABLE 96	EUROPE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	152
TABLE 97	EUROPE: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016-2021 (USD MILLION)	152
TABLE 98	EUROPE: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION)	152
TABLE 99	EUROPE: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2016-2021 (USD MILLION)	153
TABLE 100	EUROPE: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2022-2030 (USD MILLION)	153
TABLE 101	EUROPE: MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION)	153

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TABLE 102	EUROPE: MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION)	153
TABLE 103	EUROPE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	154
TABLE 104	EUROPE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	154
TABLE 105	EUROPE: MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION)	154
TABLE 106	EUROPE: MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION)	155
TABLE 107	EUROPE: MODULAR DATA CENTER MARKET, BY COUNTRY, 2016-2021 (USD MILLION)	155
TABLE 108	EUROPE: MODULAR DATA CENTER MARKET, BY COUNTRY, 2022-2030 (USD MILLION)	155
11.3.2	UK	156
11.3.2.1	New eco-design requirements set by European Parliament for servers and data storage products	156
TABLE 109	UK: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	156
TABLE 110	UK: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	156
TABLE 111	UK: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	156
TABLE 112	UK: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	157
11.3.3	GERMANY	157
11.3.3.1	Adoption of industry 4.0 and increased digital economy initiatives	157
TABLE 113	GERMANY: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	157
TABLE 114	GERMANY: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	157
TABLE 115	GERMANY: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	158
TABLE 116	GERMANY: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	158
11.3.4	FRANCE	158
11.3.4.1	Initiatives to implement tax breaks by French government to increase data center investments	158
TABLE 117	FRANCE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	158
TABLE 118	FRANCE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	159
TABLE 119	FRANCE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	159
TABLE 120	FRANCE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	159
11.3.5	REST OF EUROPE	159
TABLE 121	REST OF EUROPE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	160
TABLE 122	REST OF EUROPE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	160
TABLE 123	REST OF EUROPE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	160
TABLE 124	REST OF EUROPE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	160
11.4	ASIA PACIFIC	161
11.4.1	ASIA PACIFIC: MODULAR DATA CENTER MARKET DRIVERS	161
FIGURE 40	ASIA PACIFIC: MARKET SNAPSHOT	162
TABLE 125	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	162
TABLE 126	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	163
TABLE 127	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016-2021 (USD MILLION)	163
TABLE 128	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION)	163
TABLE 129	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2016-2021 (USD MILLION)	163
TABLE 130	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2022-2030 (USD MILLION)	164
TABLE 131	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION)	164
TABLE 132	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION)	164
TABLE 133	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	164
TABLE 134	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	165
TABLE 135	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION)	165
TABLE 136	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION)	165
TABLE 137	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COUNTRY, 2016-2021 (USD MILLION)	166
TABLE 138	ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COUNTRY, 2022-2030 (USD MILLION)	166

11.4.2 AUSTRALIA & NEW ZEALAND 166

11.4.2.1 Government organizations and telcos investing in Australia's IoT and smart city ecosystem 166

TABLE 139 ANZ: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 167

TABLE 140 ANZ: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 167

TABLE 141 ANZ: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 167

TABLE 142 ANZ: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 167

11.4.3 CHINA 168

11.4.3.1 Demand for data processing and information interaction 168

TABLE 143 CHINA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 168

TABLE 144 CHINA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 168

TABLE 145 CHINA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 168

TABLE 146 CHINA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 169

11.4.4 JAPAN 169

11.4.4.1 High adoption of 5G and edge computing due to reliable DCI in Japan 169

TABLE 147 JAPAN: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 169

TABLE 148 JAPAN: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 169

TABLE 149 JAPAN: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 170

TABLE 150 JAPAN: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 170

11.4.5 REST OF ASIA PACIFIC 170

TABLE 151 REST OF ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 170

TABLE 152 REST OF ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 171

TABLE 153 REST OF ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 171

TABLE 154 REST OF ASIA PACIFIC: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 171

11.5 MIDDLE EAST & AFRICA 171

11.5.1 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET DRIVERS 172

TABLE 155 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 172

TABLE 156 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 172

TABLE 157 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016-2021 (USD MILLION) 173

TABLE 158 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION) 173

TABLE 159 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2016-2021 (USD MILLION) 173

TABLE 160 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2022-2030 (USD MILLION) 173

TABLE 161 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION) 174

TABLE 162 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION) 174

TABLE 163 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 174

TABLE 164 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 174

TABLE 165 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION) 175

TABLE 166 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION) 175

TABLE 167 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2016-2021 (USD MILLION) 176

TABLE 168 MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2022-2030 (USD MILLION) 176

11.5.2 KINGDOM OF SAUDI ARABIA 176

11.5.2.1 Saudi Vision 2030 initiatives fuel demand for cloud, data centers, and big data 176

TABLE 169 KSA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION) 177

TABLE 170 KSA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION) 177

TABLE 171 KSA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION) 177

TABLE 172 KSA: MODULAR DATA CENTER MARKET SIZE, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION) 177

11.5.3 UAE 178

11.5.3.1 High mobile device per user ratio 178

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TABLE 173	UAE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	178
TABLE 174	UAE: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	178
TABLE 175	UAE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	178
TABLE 176	UAE: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	179
11.5.4	SOUTH AFRICA	179
11.5.4.1	High usage of mobile technologies and colocation facilities	179
TABLE 177	SOUTH AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	179
TABLE 178	SOUTH AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	179
TABLE 179	SOUTH AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	180
TABLE 180	SOUTH AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	180
11.5.5	REST OF MIDDLE EAST & AFRICA	180
TABLE 181	REST OF MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	180
TABLE 182	REST OF MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	181
TABLE 183	REST OF MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	181
TABLE 184	REST OF MIDDLE EAST & AFRICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	181
11.6	LATIN AMERICA	181
11.6.1	LATIN AMERICA: MODULAR DATA CENTER MARKET DRIVERS	182
TABLE 185	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	182
TABLE 186	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	182
TABLE 187	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016-2021 (USD MILLION)	182
TABLE 188	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022-2030 (USD MILLION)	183
TABLE 189	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2016-2021 (USD MILLION)	183
TABLE 190	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY INDIVIDUAL MODULES, 2022-2030 (USD MILLION)	183
TABLE 191	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2016-2021 (USD MILLION)	183
TABLE 192	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY SERVICES, 2022-2030 (USD MILLION)	184
TABLE 193	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	184
TABLE 194	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	184
TABLE 195	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2016-2021 (USD MILLION)	185
TABLE 196	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY VERTICAL, 2022-2030 (USD MILLION)	185
TABLE 197	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2016-2021 (USD MILLION)	185
TABLE 198	LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COUNTRY, 2022-2030 (USD MILLION)	186
11.6.2	BRAZIL	186
11.6.2.1	Largest telecom industry in region	186
TABLE 199	BRAZIL: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	186
TABLE 200	BRAZIL: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	186
TABLE 201	BRAZIL: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	187
TABLE 202	BRAZIL: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	187
11.6.3	MEXICO	187
11.6.3.1	Increased opportunities for content delivery providers	187
TABLE 203	MEXICO: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	187
TABLE 204	MEXICO: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	188
TABLE 205	MEXICO: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	188
TABLE 206	MEXICO: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	188
11.6.4	REST OF LATIN AMERICA	188
TABLE 207	REST OF LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2016-2021 (USD MILLION)	189

TABLE 208	REST OF LATIN AMERICA: MODULAR DATA CENTER MARKET, BY COMPONENT, 2022-2030 (USD MILLION)	189
TABLE 209	REST OF LATIN AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016-2021 (USD MILLION)	189
TABLE 210	REST OF LATIN AMERICA: MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022-2030 (USD MILLION)	189
12	COMPETITIVE LANDSCAPE	190
12.1	OVERVIEW	190
12.2	MARKET EVALUATION FRAMEWORK	190
FIGURE 41	MARKET EVALUATION FRAMEWORK	190
12.3	MARKET SHARE ANALYSIS OF TOP PLAYERS	191
FIGURE 42	MARKET SHARE ANALYSIS OF PLAYERS IN 2021	191
12.4	HISTORICAL REVENUE ANALYSIS OF TOP MARKET PLAYERS	192
FIGURE 43	HISTORICAL REVENUE ANALYSIS OF KEY PLAYERS	192
12.5	COMPANY EVALUATION QUADRANT	192
TABLE 211	COMPANY EVALUATION QUADRANT: CRITERIA	192
12.5.1	STARS	193
12.5.2	PERVASIVE PLAYERS	193
12.5.3	EMERGING LEADERS	193
12.5.4	PARTICIPANTS	193
TABLE 212	GLOBAL COMPANY FOOTPRINT	194
TABLE 213	COMPANY COMPONENT FOOTPRINT	194
TABLE 214	COMPANY VERTICAL FOOTPRINT (1/2)	195
TABLE 215	COMPANY VERTICAL FOOTPRINT (2/2)	195
TABLE 216	COMPANY REGION FOOTPRINT	196
FIGURE 44	MODULAR DATA CENTER (GLOBAL): COMPANY EVALUATION MATRIX, 2019	197
12.6	SME EVALUATION QUADRANT	197
TABLE 217	SME COMPANY EVALUATION MATRIX: CRITERIA	198
12.6.1	PROGRESSIVE COMPANIES	198
12.6.2	RESPONSIVE COMPANIES	198
12.6.3	DYNAMIC COMPANIES	198
12.6.4	STARTING BLOCKS	198
FIGURE 45	MODULAR DATA CENTER MARKET: SME EVALUATION MATRIX, 2021	199
12.7	COMPETITIVE BENCHMARKING	200
TABLE 218	MODULAR DATA CENTER MARKET: DETAILED LIST OF KEY STARTUPS/SMES	200
TABLE 219	MODULAR DATA CENTER MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS (STARTUPS/SMES)	201
12.8	COMPETITIVE SCENARIO	201
12.8.1	PRODUCT/SOLUTION LAUNCHES AND PRODUCT ENHANCEMENTS	201
TABLE 220	PRODUCT/SOLUTION LAUNCHES AND PRODUCT DEVELOPMENTS, 2020-2022	202
12.8.2	PARTNERSHIPS AND COLLABORATIONS	204
TABLE 221	PARTNERSHIPS AND COLLABORATIONS, 2020-2022	204
12.8.3	ACQUISITIONS	206
TABLE 222	ACQUISITIONS, 2020-2022	206
12.8.4	BUSINESS EXPANSIONS	206
TABLE 223	BUSINESS EXPANSION, 2020-2022	206
12.8.5	R&D-FOCUSED DEVELOPMENTS	208
TABLE 224	R&D-FOCUSED DEVELOPMENTS, 2020-2022	208

Modular Data Center Market by Component (Solutions (All-in-One Modules and Individual Modules) and Services), Organization Size, Vertical (BFSI, IT & Telecom, Media & Entertainment, Healthcare) and Region - Global Forecast to 2030

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