

IO-Link Market by Type (IO-Link Wired, IO-Link Wireless), Component (IO-Link Masters, IO-Link Devices), Industry (Process Industries, Hybrid Industries), Application (Machine Tools, Intralogistics Solutions) and Region - Global Forecast to 2028

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Report description:

The IO-Link market is projected to reach USD 33.9 billion by 2028 from an estimated USD 13.6 billion in 2023, at a CAGR of 20.0% from 2023 to 2028. Ability to support all fieldbus protocols is driving the growth of the IO-Link market, whereas use of compact machines and use of basic sensors are restraining the growth of IO-Link market

IO-Link wireless segment is expected to grow at higher CAGR during forecast period

The IO-Link wireless segment is projected to register a higher CAGR during the forecast period. The performance, functionality, and capability of IO-Link wireless are comparable to wired IO-Link; however, the elimination of cables ensures more flexibility, greater robustness, and better scalability. The rising demand for the IO-Link wireless protocol and increasing adoption of smart manufacturing across industries are expected to create lucrative opportunities for the manufacturers of the IO-Link wireless solutions, which in turns, driving the growth of the segment in future.

IO-Link devices segment to register growth at higher CAGR

IO-Link devices can be integrated into any fieldbus or automation system and have auto-device replacement functionality. They can be connected using the same cost-effective standard unshielded 3-wire cables as conventional discrete I/O, which helps reduce complex wiring. In the manufacturing industry, there is a growing need for operational excellence. This leads to the demand for various industrial services, such as predictive maintenance, condition monitoring, and traceability, which are expected to spur the demand for IO-Link devices. All these factors are expected to drive the growth of the IO-Link devices segment during

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the forecast period.

Discrete industries segment is likely to grow at highest CAGR

The discrete industries segment is likely to grow at the highest CAGR during the forecast period. Discrete industries follow stringent protocols for their manufacturing operations and continuously focus on reducing operational costs. This leads them to adopt industrial automation and IoT technologies for their business operations. These industries also majorly focus on improving the operational efficiency of machines to meet the growing customer demands. IO-Link can help reduce manufacturing costs, speed up commissioning times, reduce the number of network nodes, and lower the downtime of machines or systems. Discrete manufacturing involves parts and systems such as nuts and bolts, brackets, wires, assemblies, and individual products. A discrete product at the end of its life cycle can be broken down into its components, which can be recycled.

Packaging automation solutions segment to register significant growth during forecast period

The packaging automation solutions segment of the IO-Link market is expected to record the highest CAGR during the forecast period. The growth can be attributed to the increasing demand for effective and speedy packaging processes with minimal human interventions. Moreover, packaging automation solutions are used in various packaging processes, including product sorting, product handling, product storage, and product shipment. IO-Link solutions help optimize the packaging process by establishing bidirectional communication between sensors and automation systems. IO-Link solutions also offer features such as rapid and safe commissioning, reliable and high-quality packaging processes, improved availability of the final packaging machines, rapid returns on investment, and the ability to carry out remote diagnosis. Hence, the continuous evolution of packaging automation and the high adoption of IO-Link-based sensors are expected to boost the demand for packaging automation solutions in the near future.

Asia Pacific to register growth at highest CAGR

Asia Pacific is the fastest-growing IO-Link market owing to the ongoing technological innovations and increasing adoption of automation technologies in various industries. In Asia Pacific, IO-Link technology is used in industries such as automotive and electronics. Japan and China are the major contributors to the IO-Link market in the region. Asia Pacific has emerged as an automobile manufacturing hub in the world. Hence, companies such as Volkswagen, Toyota Motor Corporation, Renault-Nissan-Mitsubishi Alliance, Daimler, Tata Motors, and Mahindra & Mahindra have made investments in automating their automobile production sites. Owing to this, Asia Pacific is likely to register growth at the highest CAGR during the forecast period.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

-□By Company Type - Tier 1 - 10%, Tier 2 - 20%, Tier 3 - 70%

-□By Designation- C-level Executives - 35%, Managers - 25%, Others - 40%

-□By Region-North America - 25%, Europe - 42%, Asia Pacific - 21%, RoW - 12%

The IO-Link market is dominated by a few globally established players such as Siemens AG (Germany), Rockwell Automation, Inc. (US); OMRON Corporation (Japan); Hans Turck GmbH & Co. KG (Germany); Balluff GmbH (Germany); ifm electronic GmbH (Germany); Pepperl+Fuchs (Germany); SICK AG (Germany); Festo SE & Co. KG (Germany); and SMC Corporation (Japan). The study includes an in-depth competitive analysis of these key players in the IO-Link market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the IO-Link market and forecasts its size, by type, industry, component, application, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions-North America, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report,

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along with the key players and their competitive analysis in the smart agriculture ecosystem

Key Benefits to Buy the Report:

- Analysis Of: Rising demand for industry 4.0, ability to support all fieldbus protocols, and growing demand for remote configuration, monitoring, and maintenance are the driving factors of the io-link market. Whereas, the restraining factors are use of compact machines and use of basic sensors. Limitations of ethernet and increasing adoption of io-link in automotive industry are the opportunities, while cyber risks associated with automation systems is the challenged faced by the io-link market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the IO-Link market
- Market Development: Comprehensive information about lucrative markets - the report analyses the IO-Link market across varied regions
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the IO-Link market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Siemens AG (Germany), Rockwell Automation, Inc. (US); OMRON Corporation (Japan); Hans Turck GmbH & Co. KG (Germany); Balluff GmbH (Germany) among others in the IO-Link market.

Table of Contents:

- 1□INTRODUCTION□30
- 1.1□STUDY OBJECTIVES□30
- 1.2□MARKET DEFINITION□30
- 1.2.1□INCLUSIONS AND EXCLUSIONS□31
- 1.3□MARKET SCOPE□31
- FIGURE 1□IO-LINK MARKET SEGMENTATION□31
- 1.3.1□YEARS CONSIDERED□32
- 1.4□CURRENCY CONSIDERED□32
- 1.5□STAKEHOLDERS□32
- 1.6□SUMMARY OF CHANGES□33
- 2□RESEARCH METHODOLOGY□34
- 2.1□RESEARCH DATA□34
- FIGURE 2□IO-LINK MARKET: RESEARCH DESIGN□34
- 2.1.1□SECONDARY DATA□35
- 2.1.1.1□List of key secondary sources□35
- 2.1.1.2□Secondary sources□36
- 2.1.2□PRIMARY DATA□36
- 2.1.2.1□Primary sources□37
- 2.1.2.2□Key industry insights□37
- 2.1.2.3□Breakdown of primaries□38
- 2.2□FACTOR ANALYSIS□38
- FIGURE 3□MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH (SUPPLY SIDE)-REVENUE GENERATED BY COMPANIES FROM SALES OF IO-LINK SOLUTIONS□38
- FIGURE 4□MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH (SUPPLY SIDE)-ILLUSTRATIVE EXAMPLE OF COMPANY OPERATING IN IO-LINK MARKET□39
- FIGURE 5□MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH (DEMAND SIDE)-DEMAND FOR IO-LINK FOR MACHINE TOOLS APPLICATION□40
- 2.3□MARKET SIZE ESTIMATION□40
- 2.3.1□BOTTOM-UP APPROACH□40

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2.3.1.1	Estimating market size using bottom-up analysis (demand side)	41
FIGURE 6	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	41
2.3.2	TOP-DOWN APPROACH	42
2.3.2.1	Estimating market size using top-down analysis (supply side)	42
FIGURE 7	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	42
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	43
FIGURE 8	DATA TRIANGULATION	43
2.5	RESEARCH ASSUMPTIONS AND LIMITATIONS	44
2.5.1	RESEARCH ASSUMPTIONS	44
TABLE 1	KEY ASSUMPTIONS: MACRO AND MICRO-ECONOMIC ENVIRONMENT	44
2.5.2	LIMITATIONS	44
FIGURE 9	LIMITATIONS: IO-LINK MARKET	45
3	EXECUTIVE SUMMARY	46
FIGURE 10	IO-LINK WIRELESS SEGMENT TO REGISTER HIGHER CAGR THAN IO-LINK WIRED SEGMENT DURING FORECAST PERIOD	47
FIGURE 11	PACKAGING AUTOMATION SOLUTIONS SEGMENT TO WITNESS HIGHEST GROWTH FROM 2023 TO 2028	47
FIGURE 12	DISCRETE INDUSTRIES SEGMENT TO WITNESS HIGHEST CAGR FROM 2023 TO 2028	48
FIGURE 13	EUROPE ACCOUNTED FOR LARGEST MARKET SHARE IN 2022	48
3.1	IMPACT OF RECESSION ON IO-LINK MARKET	49
FIGURE 14	PRE- AND POST-RECESSION IMPACT ON IO-LINK MARKET	49
4	PREMIUM INSIGHTS	50
4.1	ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN IO-LINK MARKET	50
FIGURE 15	RISING NEED FOR INDUSTRY 4.0 TO FUEL DEMAND FOR IO-LINK SOLUTIONS IN COMING YEARS	50
4.2	IO-LINK MARKET, BY TYPE	50
FIGURE 16	IO-LINK WIRED SEGMENT TO CAPTURE LARGER MARKET SHARE BY 2028	50
4.3	IO-LINK MARKET, BY COMPONENT	51
FIGURE 17	IO-LINK DEVICES SEGMENT TO CAPTURE LARGER MARKET SHARE BY 2028	51
4.4	IO-LINK MARKET, BY APPLICATION	51
FIGURE 18	PACKAGING AUTOMATION SOLUTIONS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	51
4.5	IO-LINK MARKET, BY APPLICATION AND REGION	52
FIGURE 19	HANDLING AND ASSEMBLY AUTOMATION, AND EUROPE TO ACCOUNT FOR LARGEST MARKET SHARE BY 2028	52
5	MARKET OVERVIEW	53
5.1	INTRODUCTION	53
5.2	MARKET DYNAMICS	53
FIGURE 20	IO-LINK MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	53
5.2.1	DRIVERS	54
5.2.1.1	Rising demand for Industry 4.0	54
FIGURE 21	INDUSTRY 4.0 TRANSFORMING FACTORIES INTO SMART FACTORIES	54
5.2.1.2	Ability to support all fieldbus protocols	54
5.2.1.3	Growing demand for remote configuration, monitoring, and maintenance	55
FIGURE 22	IO-LINK MARKET: DRIVERS AND THEIR IMPACT	55
5.2.2	RESTRAINTS	56
5.2.2.1	Use of compact machines	56
5.2.2.2	Use of basic sensors	56
FIGURE 23	IO-LINK MARKET: RESTRAINTS AND THEIR IMPACT	56
5.2.3	OPPORTUNITIES	56
5.2.3.1	Limitations of Ethernet	56
5.2.3.2	Increasing adoption of IO-Link in automotive industry	57

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FIGURE 24	IO-LINK MARKET: OPPORTUNITIES AND THEIR IMPACT	57
5.2.4	CHALLENGES	57
5.2.4.1	Cyber risks associated with automation systems	57
FIGURE 25	IO-LINK MARKET: CHALLENGES AND THEIR IMPACT	58
5.3	SUPPLY CHAIN ANALYSIS	58
FIGURE 26	IO-LINK MARKET: SUPPLY CHAIN	58
TABLE 2	IO-LINK MARKET: COMPANIES AND THEIR ROLE IN SUPPLY CHAIN	59
5.4	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	60
5.4.1	REVENUE SHIFT AND NEW REVENUE POCKETS FOR IO-LINK MARKET	60
FIGURE 27	REVENUE SHIFT IN IO-LINK MARKET	61
5.5	IO-LINK ECOSYSTEM	61
FIGURE 28	IO-LINK ECOSYSTEM	61
5.6	PORTER'S FIVE FORCES ANALYSIS	62
TABLE 3	IO-LINK MARKET: PORTER'S FIVE FORCES ANALYSIS	62
FIGURE 29	PORTER'S FIVE FORCES ANALYSIS	63
5.6.1	THREAT OF NEW ENTRANTS	63
5.6.2	THREAT OF SUBSTITUTES	64
5.6.3	BARGAINING POWER OF SUPPLIERS	64
5.6.4	BARGAINING POWER OF BUYERS	64
5.6.5	INTENSITY OF COMPETITIVE RIVALRY	65
5.7	CASE STUDY ANALYSIS	65
5.7.1	BALLUFF REDUCED CHANGEOVER TIME BY 65% WITH GUIDED FORMAT CHANGE	65
5.7.2	HARPAK-ULMA IMPROVES CUSTOMER AGILITY WITH SMART PACKAGING MACHINES FROM ROCKWELL AUTOMATION	65
5.7.3	PROCECO INTEGRATED CLEANING SYSTEMS WITH CUBE67 AND IO-LINK SOLUTIONS	66
5.7.4	MARSTON'S BREWERY USES IFM IO-LINK DEVICES TO UPDATE TANK-LEVEL CONTROL	66
5.8	TECHNOLOGY ANALYSIS	66
5.8.1	COMPLEMENTARY TECHNOLOGIES	66
5.8.1.1	Fieldbus technology	66
5.8.1.2	Interface technology	66
5.9	AVERAGE SELLING PRICE OF IO-LINK SOLUTIONS	67
TABLE 4	AVERAGE SELLING PRICE OF IO-LINK SOLUTIONS, BY COMPONENT	67
5.10	TRADE ANALYSIS	67
TABLE 5	IMPORTS DATA, BY COUNTRY, 2017-2021 (USD MILLION)	68
TABLE 6	EXPORTS DATA, BY COUNTRY, 2017-2021 (USD MILLION)	68
5.11	PATENT ANALYSIS, 2020-2022	69
TABLE 7	TOP 20 PATENT OWNERS DURING 2013-2022	71
FIGURE 30	TOP 10 COMPANIES WITH HIGHEST NO. OF PATENT APPLICATIONS FROM 2012 TO 2021	72
FIGURE 31	PATENTS GRANTED WORLDWIDE, 2012-2021	72
5.12	TARIFFS AND REGULATIONS	73
5.12.1	TARIFFS	73
TABLE 8	TARIFF FOR HS CODE 853890 EXPORTED BY US (2021)	73
TABLE 9	TARIFF FOR HS CODE 853890 EXPORTED BY INDIA (2021)	73
5.12.2	REGULATORY COMPLIANCES	73
5.12.3	STANDARDS	75
6	IO-LINK MARKET, BY TYPE	76
6.1	INTRODUCTION	77
FIGURE 32	IO-LINK MARKET, BY TYPE	77

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FIGURE 33 IO-LINK WIRED SEGMENT TO LEAD MARKET DURING FORECAST PERIOD 77

TABLE 10 IO-LINK MARKET, BY TYPE, 2019-2022 (USD MILLION) 77

TABLE 11 IO-LINK MARKET, BY TYPE, 2023-2028 (USD MILLION) 78

TABLE 12 IO-LINK MARKET, BY TYPE, 2019-2022 (MILLION UNITS) 78

TABLE 13 IO-LINK MARKET, BY TYPE, 2023-2028 (MILLION UNITS) 78

6.2 IO-LINK WIRED 78

FIGURE 34 IO-LINK WIRED 79

6.3 IO-LINK WIRELESS 79

FIGURE 35 IO-LINK WIRELESS 80

7 IO-LINK MARKET, BY COMPONENT 81

7.1 INTRODUCTION 82

FIGURE 36 IO-LINK DEVICES SEGMENT TO REGISTER HIGHER CAGR FROM 2023 TO 2028 82

TABLE 14 IO-LINK MARKET, BY COMPONENT, 2019-2022 (USD MILLION) 82

TABLE 15 IO-LINK MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 82

TABLE 16 IO-LINK MARKET, BY COMPONENT, 2019-2022 (MILLION UNITS) 83

TABLE 17 IO-LINK MARKET, BY COMPONENT, 2023-2028 (MILLION UNITS) 83

7.2 IO-LINK MASTERS 83

TABLE 18 IO-LINK MASTERS MARKET, BY INTERFACE TYPE, 2019-2022 (USD MILLION) 84

TABLE 19 IO-LINK MASTERS MARKET, BY INTERFACE TYPE, 2023-2028 (USD MILLION) 84

TABLE 20 IO-LINK MARKET, BY INTERFACE TYPE, 2019-2022 (MILLION UNITS) 84

TABLE 21 IO-LINK MARKET, BY INTERFACE TYPE, 2023-2028 (MILLION UNITS) 85

TABLE 22 IO-LINK MASTERS MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 85

TABLE 23 IO-LINK MASTERS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 85

TABLE 24 IO-LINK MASTERS MARKET, BY APPLICATION, 2019-2022 (MILLION UNITS) 85

TABLE 25 IO-LINK MASTERS MARKET, BY APPLICATION, 2023-2028 (MILLION UNITS) 86

FIGURE 37 IO-LINK MASTERS MARKET IN ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD 86

TABLE 26 IO-LINK MASTERS MARKET, BY REGION, 2019-2022 (USD MILLION) 86

TABLE 27 IO-LINK MASTERS MARKET, BY REGION, 2023-2028 (USD MILLION) 87

TABLE 28 IO-LINK MASTERS MARKET, BY REGION, 2019-2022 (MILLION UNITS) 87

TABLE 29 IO-LINK MASTERS MARKET, BY REGION, 2023-2028 (MILLION UNITS) 87

7.2.1 PROFINET 88

7.2.1.1 PROFINET protocol led IO-Link market in 2022 88

7.2.2 ETHERNET/IP 88

7.2.2.1 EtherNet/IP ideal for control applications and Industrial Internet of Things (IIoT) 88

7.2.3 MODBUS TCP/IP 88

7.2.3.1 Modbus TCP/IP protocol widely used in process industries for factory automation 88

7.2.4 ETHERCAT 89

7.2.4.1 EtherCAT makes machines and systems faster, simpler, and more cost-effective 89

7.2.5 MULTIPROTOCOL 89

7.2.5.1 Multiprotocol solutions offer better user experience and support for field upgrades 89

7.2.6 OTHERS 89

7.3 IO-LINK DEVICES 90

TABLE 30 IO-LINK DEVICES MARKET, BY DEVICE TYPE, 2019-2022 (USD MILLION) 90

TABLE 31 IO-LINK DEVICES MARKET, BY DEVICE TYPE, 2023-2028 (USD MILLION) 90

TABLE 32 IO-LINK DEVICES MARKET, BY DEVICE TYPE, 2019-2022 (MILLION UNITS) 91

TABLE 33 IO-LINK DEVICES MARKET, BY DEVICE TYPE, 2023-2028 (MILLION UNITS) 91

TABLE 34 IO-LINK DEVICES MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 91

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TABLE 35 IO-LINK DEVICES MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 92

TABLE 36 IO-LINK DEVICES MARKET, BY APPLICATION, 2019-2022 (MILLION UNITS) 92

TABLE 37 IO-LINK DEVICES MARKET, BY APPLICATION, 2023-2028 (MILLION UNITS) 92

FIGURE 38 EUROPE TO LEAD IO-LINK DEVICES MARKET FROM 2023 TO 2028 93

TABLE 38 IO-LINK DEVICES MARKET, BY REGION, 2019-2022 (USD MILLION) 93

TABLE 39 IO-LINK DEVICES MARKET, BY REGION, 2023-2028 (USD MILLION) 93

TABLE 40 IO-LINK DEVICES MARKET, BY REGION, 2019-2022 (MILLION UNITS) 94

TABLE 41 IO-LINK DEVICES MARKET, BY REGION, 2023-2028 (MILLION UNITS) 94

7.3.1 SENSOR NODES 94

7.3.1.1 Sensor nodes are small and inexpensive devices with limited battery and computation power 94

TABLE 42 IO-LINK SENSOR NODES MARKET, BY SUBTYPE, 2019-2022 (USD MILLION) 95

TABLE 43 IO-LINK SENSOR NODES MARKET, BY SUBTYPE, 2023-2028 (USD MILLION) 95

TABLE 44 IO-LINK SENSOR NODES MARKET, BY SUBTYPE, 2019-2022 (MILLION UNITS) 95

TABLE 45 IO-LINK SENSOR NODES MARKET, BY SUBTYPE, 2023-2028 (MILLION UNITS) 96

7.3.1.2 Position sensors 96

7.3.1.2.1 Position sensors enable presence and absence detection of objects 96

7.3.1.3 Temperature sensors 96

7.3.1.3.1 Temperature sensors can detect differences in temperature of objects and their surroundings 96

7.3.1.4 Pressure sensors 97

7.3.1.4.1 Pressure sensors determine pressure applied to sensors and convert this information into output signal 97

7.3.1.5 Vibration sensors 97

7.3.1.5.1 Vibration sensors help measure acceleration, speed, and normal vibration in various applications 97

7.3.1.6 Others 97

7.3.2 MODULES 98

7.3.2.1 IO-Link modules enable connection of standard sensors and actuators 98

7.3.3 ACTUATORS 98

7.3.3.1 Actuators help machines achieve physical movement 98

7.3.4 RFID READ HEADS AND OTHERS 98

8 IO-LINK MARKET, BY INDUSTRY 99

8.1 INTRODUCTION 100

FIGURE 39 DISCRETE INDUSTRIES TO DOMINATE IO-LINK MARKET DURING FORECAST PERIOD 100

TABLE 46 IO-LINK MARKET, BY INDUSTRY, 2019-2022 (USD MILLION) 100

TABLE 47 IO-LINK MARKET, BY INDUSTRY, 2023-2028 (USD MILLION) 101

TABLE 48 IO-LINK MARKET, BY INDUSTRY, 2019-2022 (MILLION UNITS) 101

TABLE 49 IO-LINK MARKET, BY INDUSTRY, 2023-2028 (MILLION UNITS) 101

8.2 DISCRETE INDUSTRIES 102

FIGURE 40 EUROPE TO LEAD IO-LINK MARKET FOR DISCRETE INDUSTRIES FROM 2023 TO 2028 102

TABLE 50 IO-LINK MARKET FOR DISCRETE INDUSTRIES, BY REGION, 2019-2022 (USD MILLION) 102

TABLE 51 IO-LINK MARKET FOR DISCRETE INDUSTRIES, BY REGION, 2023-2028 (USD MILLION) 103

TABLE 52 IO-LINK MARKET FOR DISCRETE INDUSTRIES, BY REGION, 2019-2022 (MILLION UNITS) 103

TABLE 53 IO-LINK MARKET FOR DISCRETE INDUSTRIES, BY REGION, 2023-2028 (MILLION UNITS) 103

8.2.1 AUTOMOTIVE 104

8.2.1.1 IO-Link solutions help streamline manufacturing processes 104

8.2.2 AEROSPACE & DEFENSE 104

8.2.2.1 Increased automation in aerospace & defense industry to boost demand for IO-Link solutions 104

8.2.3 SEMICONDUCTOR & ELECTRONICS 105

8.2.3.1 Decentralization in semiconductor & electronics industry to propel IO-Link market growth 105

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8.2.4 MACHINE MANUFACTURING 105

8.2.4.1 IO-Link facilitates control architecture modernization to support IIoT and Industry 4.0 105

8.2.5 PACKAGING 106

8.2.5.1 Need for high-quality packaging processes to boost demand for IO-Link solutions 106

8.3 HYBRID INDUSTRIES 106

TABLE 54 IO-LINK MARKET FOR HYBRID INDUSTRIES, BY REGION, 2019-2022 (USD MILLION) 106

TABLE 55 IO-LINK MARKET FOR HYBRID INDUSTRIES, BY REGION, 2023-2028 (USD MILLION) 106

TABLE 56 IO-LINK MARKET FOR HYBRID INDUSTRIES, BY REGION, 2019-2022 (MILLION UNITS) 107

TABLE 57 IO-LINK MARKET FOR HYBRID INDUSTRIES, BY REGION, 2023-2028 (MILLION UNITS) 107

8.3.1 PHARMACEUTICALS 107

8.3.1.1 Adoption of IO-Link solutions to make manufacturing operations faster and more cost-effective 107

8.3.2 METALS & MINING 108

8.3.2.1 IO-Link solutions to help manage processes better and increase productivity 108

8.3.3 FOOD & BEVERAGES 108

8.3.3.1 Need for process reliability and constant product quality to drive demand for IO-Link solutions 108

8.3.4 CEMENT AND GLASS 109

8.3.4.1 Emphasis of manufacturers on conserving natural resources and protecting climate to offer lucrative opportunities for IO-Link solution providers 109

8.4 PROCESS INDUSTRIES 109

FIGURE 41 EUROPE TO LEAD IO-LINK MARKET FOR PROCESS INDUSTRIES DURING FORECAST PERIOD 110

TABLE 58 IO-LINK MARKET FOR PROCESS INDUSTRIES, BY REGION, 2019-2022 (USD MILLION) 110

TABLE 59 IO-LINK MARKET FOR PROCESS INDUSTRIES, BY REGION, 2023-2028 (USD MILLION) 110

TABLE 60 IO-LINK MARKET FOR PROCESS INDUSTRIES, BY REGION, 2019-2022 (MILLION UNITS) 111

TABLE 61 IO-LINK MARKET FOR PROCESS INDUSTRIES, BY REGION, 2023-2028 (MILLION UNITS) 111

8.4.1 OIL & GAS 111

8.4.1.1 Rising focus on lowering operational costs in oil & gas industry to increase adoption of IO-Link solutions 111

8.4.2 CHEMICALS 112

8.4.2.1 IO-Link solutions to increase efficiency, sustainability, and safety of chemicals manufacturing and processing plants 112

8.4.3 ENERGY & POWER 112

8.4.3.1 IO-Link solutions to help increase flexibility and efficiency of energy & power industry 112

9 IO-LINK MARKET, BY APPLICATION 113

9.1 INTRODUCTION 114

FIGURE 42 HANDLING AND ASSEMBLY AUTOMATION SEGMENT ESTIMATED TO LEAD IO-LINK MARKET IN 2023 114

TABLE 62 IO-LINK MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 114

TABLE 63 IO-LINK MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 115

TABLE 64 IO-LINK MARKET, BY APPLICATION, 2019-2022 (MILLION UNITS) 115

TABLE 65 IO-LINK MARKET, BY APPLICATION, 2023-2028 (MILLION UNITS) 115

9.2 MACHINE TOOLS 116

9.2.1 RISING NEED FOR AUTOMATIC SETTING OF SENSOR PARAMETERS TO FUEL DEMAND FOR IO-LINK SOLUTIONS IN MACHINE TOOLS 116

TABLE 66 IO-LINK MARKET FOR MACHINE TOOLS, BY COMPONENT, 2019-2022 (USD MILLION) 116

TABLE 67 IO-LINK MARKET FOR MACHINE TOOLS, BY COMPONENT, 2023-2028 (USD MILLION) 116

TABLE 68 IO-LINK MARKET FOR MACHINE TOOLS, BY COMPONENT, 2019-2022 (MILLION UNITS) 116

TABLE 69 IO-LINK MARKET FOR MACHINE TOOLS, BY COMPONENT, 2023-2028 (MILLION UNITS) 117

FIGURE 43 EUROPE TO LEAD IO-LINK MARKET FOR MACHINE TOOLS DURING FORECAST PERIOD 117

TABLE 70 IO-LINK MARKET FOR MACHINE TOOLS, BY REGION, 2019-2022 (USD MILLION) 117

TABLE 71 IO-LINK MARKET FOR MACHINE TOOLS, BY REGION, 2023-2028 (USD MILLION) 118

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TABLE 72 IO-LINK MARKET FOR MACHINE TOOLS, BY REGION, 2019-2022 (MILLION UNITS) 118

TABLE 73 IO-LINK MARKET FOR MACHINE TOOLS, BY REGION, 2023-2028 (MILLION UNITS) 118

9.3 HANDLING AND ASSEMBLY AUTOMATION 119

9.3.1 INCREASING DEMAND FOR INDUSTRIAL AUTOMATION TO ACCELERATE GROWTH OF HANDLING AND ASSEMBLY AUTOMATION APPLICATION 119

TABLE 74 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY COMPONENT, 2019-2022 (USD MILLION) 119

TABLE 75 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY COMPONENT, 2023-2028 (USD MILLION) 119

TABLE 76 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY COMPONENT, 2019-2022 (MILLION UNITS) 120

TABLE 77 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY COMPONENT, 2023-2028 (MILLION UNITS) 120

TABLE 78 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY REGION, 2019-2022 (USD MILLION) 120

TABLE 79 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY REGION, 2023-2028 (USD MILLION) 120

TABLE 80 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY REGION, 2019-2022 (MILLION UNITS) 121

TABLE 81 IO-LINK MARKET FOR HANDLING AND ASSEMBLY AUTOMATION, BY REGION, 2023-2028 (MILLION UNITS) 121

9.4 PACKAGING AUTOMATION SOLUTIONS 121

9.4.1 NEED TO INCREASE PRODUCTIVITY AND REDUCE MANUFACTURING COSTS TO DRIVE DEMAND FOR PACKAGING AUTOMATION SOLUTIONS 121

FIGURE 44 IO-LINK DEVICES TO LEAD IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS DURING FORECAST PERIOD 122

TABLE 82 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY COMPONENT, 2019-2022 (USD MILLION) 122

TABLE 83 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY COMPONENT, 2023-2028 (USD MILLION) 122

TABLE 84 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY COMPONENT, 2019-2022 (MILLION UNITS) 123

TABLE 85 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY COMPONENT, 2023-2028 (MILLION UNITS) 123

TABLE 86 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY REGION, 2019-2022 (USD MILLION) 123

TABLE 87 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY REGION, 2023-2028 (USD MILLION) 124

TABLE 88 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY REGION, 2019-2022 (MILLION UNITS) 124

TABLE 89 IO-LINK MARKET FOR PACKAGING AUTOMATION SOLUTIONS, BY REGION, 2023-2028 (MILLION UNITS) 124

9.5 INTRALOGISTICS SOLUTIONS 125

9.5.1 USE OF IO-LINK SOLUTIONS TO INCREASE OVERALL EFFICACY OF CONVEYOR BELTS 125

TABLE 90 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY COMPONENT, 2019-2022 (USD MILLION) 125

TABLE 91 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY COMPONENT, 2023-2028 (USD MILLION) 125

TABLE 92 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY COMPONENT, 2019-2022 (MILLION UNITS) 126

TABLE 93 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY COMPONENT, 2023-2028 (MILLION UNITS) 126

TABLE 94 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY REGION, 2019-2022 (USD MILLION) 126

TABLE 95 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY REGION, 2023-2028 (USD MILLION) 126

TABLE 96 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY REGION, 2019-2022 (MILLION UNITS) 127

TABLE 97 IO-LINK MARKET FOR INTRALOGISTICS SOLUTIONS, BY REGION, 2023-2028 (MILLION UNITS) 127

10 IO-LINK MARKET, BY REGION 128

10.1 INTRODUCTION 129

FIGURE 45 EUROPE TO HOLD LARGEST SHARE OF IO-LINK MARKET FROM 2023 TO 2028 129

TABLE 98 IO-LINK MARKET, BY REGION, 2019-2022 (USD MILLION) 129

TABLE 99 IO-LINK MARKET, BY REGION, 2023-2028 (USD MILLION) 130

TABLE 100 IO-LINK MARKET, BY REGION, 2019-2022 (MILLION UNITS) 130

TABLE 101 IO-LINK MARKET, BY REGION, 2023-2028 (MILLION UNITS) 130

10.2 NORTH AMERICA 131

FIGURE 46 NORTH AMERICA: IO-LINK MARKET SNAPSHOT 131

TABLE 102 IO-LINK MARKET IN NORTH AMERICA, BY COMPONENT, 2019-2022 (USD MILLION) 132

TABLE 103 IO-LINK MARKET IN NORTH AMERICA, BY COMPONENT, 2023-2028 (USD MILLION) 132

TABLE 104 IO-LINK MARKET IN NORTH AMERICA, BY COMPONENT, 2019-2022 (MILLION UNITS) 132

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TABLE 105 □ IO-LINK MARKET IN NORTH AMERICA, BY COMPONENT, 2023-2028 (MILLION UNITS) □ 132

TABLE 106 □ IO-LINK MARKET IN NORTH AMERICA, BY APPLICATION, 2019-2022 (USD MILLION) □ 133

TABLE 107 □ IO-LINK MARKET IN NORTH AMERICA, BY APPLICATION, 2023-2028 (USD MILLION) □ 133

TABLE 108 □ IO-LINK MARKET IN NORTH AMERICA, BY APPLICATION, 2019-2022 (MILLION UNITS) □ 133

TABLE 109 □ IO-LINK MARKET IN NORTH AMERICA, BY APPLICATION, 2023-2028 (MILLION UNITS) □ 133

TABLE 110 □ IO-LINK MARKET IN NORTH AMERICA, BY INDUSTRY, 2019-2022 (USD MILLION) □ 134

TABLE 111 □ IO-LINK MARKET IN NORTH AMERICA, BY INDUSTRY, 2023-2028 (USD MILLION) □ 134

TABLE 112 □ IO-LINK MARKET IN NORTH AMERICA, BY INDUSTRY, 2019-2022 (MILLION UNITS) □ 134

TABLE 113 □ IO-LINK MARKET IN NORTH AMERICA, BY INDUSTRY, 2023-2028 (MILLION UNITS) □ 134

TABLE 114 □ IO-LINK MARKET IN NORTH AMERICA, BY COUNTRY, 2019-2022 (USD MILLION) □ 135

TABLE 115 □ IO-LINK MARKET IN NORTH AMERICA, BY COUNTRY, 2023-2028 (USD MILLION) □ 135

TABLE 116 □ IO-LINK MARKET IN NORTH AMERICA, BY COUNTRY, 2019-2022 (MILLION UNITS) □ 135

TABLE 117 □ IO-LINK MARKET IN NORTH AMERICA, BY COUNTRY, 2023-2028 (MILLION UNITS) □ 135

10.2.1 □ US □ 136

10.2.1.1 □ Rising petroleum industry to offer lucrative growth opportunities for IO-Link market □ 136

10.2.2 □ CANADA □ 136

10.2.2.1 □ Growth in manufacturing sector to drive adoption of IO-Link solutions □ 136

10.2.3 □ MEXICO □ 137

10.2.3.1 □ Continuous developments in manufacturing industry to boost demand for IO-Link solutions □ 137

10.3 □ EUROPE □ 137

FIGURE 47 □ EUROPE: IO-LINK MARKET SNAPSHOT □ 138

TABLE 118 □ IO-LINK MARKET IN EUROPE, BY COMPONENT, 2019-2022 (USD MILLION) □ 138

TABLE 119 □ IO-LINK MARKET IN EUROPE, BY COMPONENT, 2023-2028 (USD MILLION) □ 139

TABLE 120 □ IO-LINK MARKET IN EUROPE, BY COMPONENT, 2019-2022 (MILLION UNITS) □ 139

TABLE 121 □ IO-LINK MARKET IN EUROPE, BY COMPONENT, 2023-2028 (MILLION UNITS) □ 139

TABLE 122 □ IO-LINK MARKET IN EUROPE, BY APPLICATION, 2019-2022 (USD MILLION) □ 139

TABLE 123 □ IO-LINK MARKET IN EUROPE, BY APPLICATION, 2023-2028 (USD MILLION) □ 140

TABLE 124 □ IO-LINK MARKET IN EUROPE, BY APPLICATION, 2019-2022 (MILLION UNITS) □ 140

TABLE 125 □ IO-LINK MARKET IN EUROPE, BY APPLICATION, 2023-2028 (MILLION UNITS) □ 140

TABLE 126 □ IO-LINK MARKET IN EUROPE, BY INDUSTRY, 2019-2022 (USD MILLION) □ 141

TABLE 127 □ IO-LINK MARKET IN EUROPE, BY INDUSTRY, 2023-2028 (USD MILLION) □ 141

TABLE 128 □ IO-LINK MARKET IN EUROPE, BY INDUSTRY, 2019-2022 (MILLION UNITS) □ 141

TABLE 129 □ IO-LINK MARKET IN EUROPE, BY INDUSTRY, 2023-2028 (MILLION UNITS) □ 141

TABLE 130 □ IO-LINK MARKET IN EUROPE, BY COUNTRY, 2019-2022 (USD MILLION) □ 142

TABLE 131 □ IO-LINK MARKET IN EUROPE, BY COUNTRY, 2023-2028 (USD MILLION) □ 142

TABLE 132 □ IO-LINK MARKET IN EUROPE, BY COUNTRY, 2019-2022 (MILLION UNITS) □ 142

TABLE 133 □ IO-LINK MARKET IN EUROPE, BY COUNTRY, 2023-2028 (MILLION UNITS) □ 143

10.3.1 □ GERMANY □ 143

10.3.1.1 □ Growing adoption of robotics and automation products to boost demand for IO-Link solutions □ 143

10.3.2 □ UK □ 143

10.3.2.1 □ Increased adoption of IO-Link solutions by aerospace sector to drive market □ 143

10.3.3 □ FRANCE □ 144

10.3.3.1 □ Vibrant automotive industry to drive IO-Link market □ 144

10.3.4 □ ITALY □ 144

10.3.4.1 □ IO-Link used to facilitate communication between connected devices in robots industry □ 144

10.3.5 □ REST OF EUROPE □ 144

10.4 □ ASIA PACIFIC □ 144

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FIGURE 48 □ ASIA PACIFIC: IO-LINK MARKET SNAPSHOT □ 145

TABLE 134 □ IO-LINK MARKET IN ASIA PACIFIC, BY COMPONENT, 2019-2022 (USD MILLION) □ 145

TABLE 135 □ IO-LINK MARKET IN ASIA PACIFIC, BY COMPONENT, 2023-2028 (USD MILLION) □ 146

TABLE 136 □ IO-LINK MARKET IN ASIA PACIFIC, BY COMPONENT, 2019-2022 (MILLION UNITS) □ 146

TABLE 137 □ IO-LINK MARKET IN ASIA PACIFIC, BY COMPONENT, 2023-2028 (MILLION UNITS) □ 146

FIGURE 49 □ HANDLING AND ASSEMBLY AUTOMATION SEGMENT TO LEAD MARKET IN ASIA PACIFIC DURING FORECAST PERIOD □ 146

TABLE 138 □ IO-LINK MARKET IN ASIA PACIFIC, BY APPLICATION, 2019-2022 (USD MILLION) □ 147

TABLE 139 □ IO-LINK MARKET IN ASIA PACIFIC, BY APPLICATION, 2023-2028 (USD MILLION) □ 147

TABLE 140 □ IO-LINK MARKET IN ASIA PACIFIC, BY APPLICATION, 2019-2022 (MILLION UNITS) □ 147

TABLE 141 □ IO-LINK MARKET IN ASIA PACIFIC, BY APPLICATION, 2023-2028 (MILLION UNITS) □ 147

TABLE 142 □ IO-LINK MARKET IN ASIA PACIFIC, BY INDUSTRY, 2019-2022 (USD MILLION) □ 148

TABLE 143 □ IO-LINK MARKET IN ASIA PACIFIC, BY INDUSTRY, 2023-2028 (USD MILLION) □ 148

TABLE 144 □ IO-LINK MARKET IN ASIA PACIFIC, BY INDUSTRY, 2019-2022 (MILLION UNITS) □ 148

TABLE 145 □ IO-LINK MARKET IN ASIA PACIFIC, BY INDUSTRY, 2023-2028 (MILLION UNITS) □ 148

FIGURE 50 □ CHINA TO DOMINATE ASIA PACIFIC IO-LINK MARKET DURING FORECAST PERIOD □ 149

TABLE 146 □ IO-LINK MARKET IN ASIA PACIFIC, BY COUNTRY, 2019-2022 (USD MILLION) □ 149

TABLE 147 □ IO-LINK MARKET IN ASIA PACIFIC, BY COUNTRY, 2023-2028 (USD MILLION) □ 149

TABLE 148 □ IO-LINK MARKET IN ASIA PACIFIC, BY COUNTRY, 2019-2022 (MILLION UNITS) □ 150

TABLE 149 □ IO-LINK MARKET IN ASIA PACIFIC, BY COUNTRY, 2023-2028 (MILLION UNITS) □ 150

10.4.1 □ CHINA □ 150

10.4.1.1 □ Growing automation in manufacturing industry to drive market □ 150

10.4.2 □ JAPAN □ 151

10.4.2.1 □ Rising automotive industry to propel IO-Link market growth □ 151

10.4.3 □ SOUTH KOREA □ 151

10.4.3.1 □ Growing electronics industry to boost market growth □ 151

10.4.4 □ REST OF ASIA PACIFIC □ 151

10.5 □ REST OF THE WORLD □ 151

TABLE 150 □ IO-LINK MARKET IN REST OF THE WORLD, BY COMPONENT, 2019-2022 (USD MILLION) □ 151

TABLE 151 □ IO-LINK MARKET IN REST OF THE WORLD, BY COMPONENT, 2023-2028 (USD MILLION) □ 152

TABLE 152 □ IO-LINK MARKET IN REST OF THE WORLD, BY COMPONENT, 2019-2022 (MILLION UNITS) □ 152

TABLE 153 □ IO-LINK MARKET IN REST OF THE WORLD, BY COMPONENT, 2023-2028 (MILLION UNITS) □ 152

TABLE 154 □ IO-LINK MARKET IN REST OF THE WORLD, BY APPLICATION, 2019-2022 (USD MILLION) □ 152

TABLE 155 □ IO-LINK MARKET IN REST OF THE WORLD, BY APPLICATION, 2023-2028 (USD MILLION) □ 153

TABLE 156 □ IO-LINK MARKET IN REST OF THE WORLD, BY APPLICATION, 2019-2022 (MILLION UNITS) □ 153

TABLE 157 □ IO-LINK MARKET IN REST OF THE WORLD, BY APPLICATION, 2023-2028 (MILLION UNITS) □ 153

TABLE 158 □ IO-LINK MARKET IN REST OF THE WORLD, BY INDUSTRY, 2019-2022 (USD MILLION) □ 153

TABLE 159 □ IO-LINK MARKET IN REST OF THE WORLD, BY INDUSTRY, 2023-2028 (USD MILLION) □ 154

TABLE 160 □ IO-LINK MARKET IN REST OF THE WORLD, BY INDUSTRY, 2019-2022 (MILLION UNITS) □ 154

TABLE 161 □ IO-LINK MARKET IN REST OF THE WORLD, BY INDUSTRY, 2023-2028 (MILLION UNITS) □ 154

TABLE 162 □ IO-LINK MARKET IN REST OF THE WORLD, BY REGION, 2019-2022 (USD MILLION) □ 154

TABLE 163 □ IO-LINK MARKET IN REST OF THE WORLD, BY REGION, 2023-2028 (USD MILLION) □ 155

TABLE 164 □ IO-LINK MARKET IN REST OF THE WORLD, BY REGION, 2019-2022 (MILLION UNITS) □ 155

TABLE 165 □ IO-LINK MARKET IN REST OF THE WORLD, BY REGION, 2023-2028 (MILLION UNITS) □ 155

10.5.1 □ MIDDLE EAST AND AFRICA (MEA) □ 156

10.5.1.1 □ Growing automation in oil & gas industry to propel demand for IO-Link □ 156

10.5.2 □ SOUTH AMERICA □ 156

10.5.2.1 □ Growing mining industry to drive IO-Link market □ 156

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11	COMPETITIVE LANDSCAPE	157
11.1	INTRODUCTION	157
11.2	STRATEGIES ADOPTED BY KEY PLAYERS	157
	TABLE 166 OVERVIEW OF STRATEGIES DEPLOYED BY KEY IO-LINK COMPANIES	157
11.2.1	PRODUCT PORTFOLIO	158
11.2.2	REGIONAL FOCUS	158
11.2.3	MANUFACTURING FOOTPRINT	158
11.2.4	ORGANIC/INORGANIC GROWTH STRATEGIES	158
11.3	FIVE-YEAR REVENUE ANALYSIS OF TOP FIVE COMPANIES, 2017-2021	158
	FIGURE 51 FIVE-YEAR REVENUE ANALYSIS OF TOP FIVE PLAYERS IN IO-LINK MARKET	158
11.4	MARKET SHARE ANALYSIS: IO-LINK MARKET, 2022	159
	TABLE 167 IO-LINK MARKET: MARKET SHARE ANALYSIS (2022)	159
11.5	MARKET EVALUATION QUADRANT, 2022	160
11.5.1	STARS	160
11.5.2	PERVASIVE PLAYERS	160
11.5.3	EMERGING LEADERS	160
11.5.4	PARTICIPANTS	160
	FIGURE 52 COMPANY EVALUATION QUADRANT, 2022	161
11.6	COMPANY FOOTPRINT	162
	TABLE 168 COMPANY FOOTPRINT	162
	TABLE 169 INDUSTRY FOOTPRINT OF COMPANIES	163
	TABLE 170 APPLICATION FOOTPRINT OF COMPANIES	164
	TABLE 171 REGIONAL FOOTPRINT OF COMPANIES	165
11.7	STARTUP/SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION QUADRANT, 2022	166
	TABLE 172 STARTUPS/SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) IN IO-LINK MARKET	166
11.7.1	PROGRESSIVE COMPANIES	166
11.7.2	RESPONSIVE COMPANIES	166
11.7.3	DYNAMIC COMPANIES	167
11.7.4	STARTING BLOCKS	167
	FIGURE 53 STARTUP/SME EVALUATION QUADRANT, 2022	167
11.8	COMPETITIVE SITUATIONS AND TRENDS	168
11.8.1	PRODUCT LAUNCHES	168
	TABLE 173 PRODUCT LAUNCHES (2019-2022)	168
11.8.2	DEALS	171
	TABLE 174 DEALS (2019-2022)	171
12	COMPANY PROFILES	173
	(Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats))*	
12.1	KEY PLAYERS	173
12.1.1	SIEMENS AG	173
	TABLE 175 SIEMENS AG: BUSINESS OVERVIEW	173
	FIGURE 54 SIEMENS AG: COMPANY SNAPSHOT	174
	TABLE 176 SIEMENS AG: PRODUCTS OFFERED	175
	TABLE 177 SIEMENS AG: PRODUCT LAUNCHES	176
	TABLE 178 SIEMENS AG: DEALS	177
12.1.2	HANS TURCK GMBH & CO. KG	178
	TABLE 179 HANS TURCK GMBH & CO. KG: BUSINESS OVERVIEW	178

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TABLE 180 HANS TURCK GMBH & CO. KG: PRODUCT OFFERED 178
 TABLE 181 HANS TURCK GMBH & CO. KG: PRODUCT LAUNCHES 180
 TABLE 182 HANS TURCK GMBH & CO. KG: DEALS 181
 12.1.3 BALLUFF GMBH 182
 TABLE 183 BALLUFF: BUSINESS OVERVIEW 182
 TABLE 184 BALLUFF GMBH: PRODUCTS OFFERED 182
 TABLE 185 BALLUFF GMBH: PRODUCTS LAUNCHES 184
 12.1.4 IFM ELECTRONIC GMBH 186
 TABLE 186 IFM ELECTRONIC GMBH: BUSINESS OVERVIEW 186
 TABLE 187 IFM ELECTRONIC GMBH: PRODUCTS OFFERED 186
 TABLE 188 IFM ELECTRONIC GMBH: DEALS 188
 12.1.5 SICK AG 190
 TABLE 189 SICK AG: BUSINESS OVERVIEW 190
 FIGURE 55 SICK AG: COMPANY SNAPSHOT 191
 TABLE 190 SICK AG: PRODUCTS OFFERED 192
 TABLE 191 SICK AG: PRODUCTS LAUNCHES 193
 TABLE 192 SICK AG: DEALS 193
 12.1.6 ROCKWELL AUTOMATION, INC. 194
 TABLE 193 ROCKWELL AUTOMATION, INC.: BUSINESS OVERVIEW 194
 FIGURE 56 ROCKWELL AUTOMATION, INC.: COMPANY SNAPSHOT 195
 TABLE 194 ROCKWELL AUTOMATION, INC.: PRODUCTS OFFERED 195
 TABLE 195 ROCKWELL AUTOMATION, INC.: PRODUCT LAUNCHES 199
 12.1.7 OMRON CORPORATION 201
 TABLE 196 OMRON CORPORATION: BUSINESS OVERVIEW 201
 FIGURE 57 OMRON CORPORATION: COMPANY SNAPSHOT 202
 TABLE 197 OMRON CORPORATION: PRODUCTS OFFERED 203
 TABLE 198 OMRON CORPORATION: PRODUCT LAUNCHES 204
 12.1.8 PEPPERL+FUCHS 205
 TABLE 199 PEPPERL+FUCHS: BUSINESS OVERVIEW 205
 TABLE 200 PEPPERL+FUCHS: PRODUCTS OFFERED 205
 TABLE 201 PEPPERL+FUCHS: PRODUCT LAUNCHES 207
 TABLE 202 PEPPERL+FUCHS: DEALS 207
 12.1.9 FESTO SE & CO. KG 208
 TABLE 203 FESTO SE & CO. KG COMPANY: BUSINESS OVERVIEW 208
 TABLE 204 FESTO SE & CO. KG: PRODUCTS OFFERED 208
 TABLE 205 FESTO SE & CO. KG: DEALS 209
 12.1.10 SMC CORPORATION 210
 TABLE 206 SMC CORPORATION: BUSINESS OVERVIEW 210
 FIGURE 58 SMC CORPORATION: COMPANY SNAPSHOT 210
 TABLE 207 SMC CORPORATION: PRODUCTS OFFERED 211
 Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats) might not be captured in case of unlisted companies.

12.2 OTHER PLAYERS 212
 12.2.1 BOSCH REXROTH AG 212
 12.2.2 BAUMER 213
 12.2.3 BELDEN INC. 214
 12.2.4 BECKHOFF AUTOMATION GMBH & CO. KG 215

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12.2.5	BANNER ENGINEERING CORP.	216
12.2.6	WEIDMULLER INTERFACE GMBH & CO. KG	217
12.2.7	PHOENIX CONTACT GMBH & CO. KG	218
12.2.8	WENGLOR SENSORIC GMBH	218
12.2.9	CARLO GAVAZZI HOLDING AG	219
12.2.10	DATALOGIC S.P.A.	220
12.2.11	BIHL+WIEDEMANN GMBH	221
12.2.12	MURRELEKTRONIK GMBH	222
12.2.13	JUMO GMBH & CO. KG	223
12.2.14	CORETIGO	224
13	APPENDIX	225
13.1	DISCUSSION GUIDE	225
13.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	228
13.3	CUSTOMIZATION OPTIONS	230
13.4	RELATED REPORTS	230
13.5	AUTHOR DETAILS	231

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IO-Link Market by Type (IO-Link Wired, IO-Link Wireless), Component (IO-Link Masters, IO-Link Devices), Industry (Process Industries, Hybrid Industries), Application (Machine Tools, Intralogistics Solutions) and Region - Global Forecast to 2028

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