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Millimeter Wave Technology Market by Component (Antenna & Transceiver Components, Frequency Sources & Related Components, Communication & Networking Components, Imaging Components, RF & Radio Components, Sensors & Controls, and Others), Product (Scanner Systems, Radar & Satellite Communication Systems, and Telecommunication Equipment), License Type (Light Licensed Frequency, Unlicensed Frequency, and Fully Licensed Frequency) Frequency Band (24 GHz to 57 GHz, 58 GHz to 86 GHz, and 87 GHz to 300 GHz) Application (Telecom/Datacom, Military, Defense & Aerospace, Automotive, Industrial, Consumer, Medical, and Others): Global Opportunity Analysis and Industry Forecast, 2020-2027

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Abstracts

The global millimeter wave technology market size is expected to reach $3.88 billion by 2027 from $369.9 million in 2019, growing at a CAGR of 37.1% from 2020 to 2027. Millimeter wave is a kind of electromagnetic technology used in various products such as phones, cars, medical devices, and others to ensure wireless broadband communications at a higher speed. It is known as extremely high frequency (EHF) because it presents signal spectrum ranges from 30GHz to 300GHz with a wavelength between 1 and 10 mm. Moreover, millimeter wave technology provides security for

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communication transmission.

Rise in the adoption of multimeter wave technology trend in healthcare and aerospace industry due to increase in demand for imaging devices networks, monitor and foremost for security. Furthermore, increase in demand for millimeter wave solutions in industrial segment due to increase in adoption of building automation ensures high accuracy occupancy detection and tracks the people from both indoor and outdoor at a range from 14m to 50m. Thus, increase in advancement in the field of material research, imaging system, and process control in the industrial sector drives the market for the millimeter wave technology across the globe. However, high cost and environmental concerns related to 5G and limited range acts as a major restraint, which hampers the market growth globally.

The millimeter wave technology market is analyzed into component, product type, license type, frequency band, application, and region. By component, the market is bifurcated into antenna & transceiver components, frequency sources & related components, communication & networking components, imaging components, RF & radio components, sensors & controls, and others. Based on product, the market is fragmented into scanner systems, radar & satellite systems, and telecommunication equipment. Based on license type, the market is segregated into light licensed frequency, unlicensed frequency, and fully licensed frequency. Based on frequency band, the market is classified into below 57 GHz, between 57 GHz & 300 GHz, and around 300 GHz. Based on application, the market is classified into telecom and datacom, military & defense, automotive, industrial, consumer, medical, and others. Region-wise, the global solid state lighting market is analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, Italy, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, Australia, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The key players operating in the market include NEC Corporation, L3 Technologies, Inc., Keysight Technologies, Millimeter Wave Products Inc., BridgeWave Communications (REMEC Broadband Wireless Networks), CableFree: Wireless Excellence, Farran Technology, E-Band Communications, LLC, SAGE Millimeter, Inc., Siklu Communication, Denso Corporation, Fujitsu, Mitsubishi Electric Corporation, MMW Biomedical, and Hubei YJT Technology.

KEY MARKET SEGMENTS

BY COMPONENTS

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Antenna and Transceiver Millimeter Wave Technology

Frequency Sources and Related Millimeter Wave Technology

Communication and Networking Millimeter Wave Technology

Imaging Millimeter Wave Technology

RF and Radio Millimeter Wave Technology

Sensors & Controls

Others

BY PRODUCT

Scanner Systems

Active System

Passive System

Radar & Satellite Communications Systems

Perimeter Surveillance Radar System

Application-Specific Radar System

Telecommunication Equipment

Mobile Backhaul Equipment

Small-cell Equipment

Macro-cell Equipment

BY LICENSE

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Light Licensed Frequency

Unlicensed Frequency

Fully Licensed Frequency

BY FREQUENCY

24 GHz to 57 GHz

58 GHz to 86 GHz

87 GHz to 300 GHz

BY APPLICATION

Telecom and Datacom

Military, Aerospace, & Defense

Automotive

Industrial

Consumer

Medical

Others

BY REGION

North America

U.S.

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- Canada
- Mexico

Europe

- UK
- Germany
- France
- Italy
- Rest of Europe

Asia-Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia-Pacific

LAMEA

- Latin America
- Middle East
- Africa

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KEY PLAYERS

Bridgewave Communications

Cablefree: Wireless Excellence

E-Band Communications, LLC

Farran Technology

Keysight Technologies

L3 Technologies, Inc.

Millimeter Wave Products Inc.

Nec Corporation

Sage Millimeter, Inc.

Siklu Communication

Fujitsu

Denso Corporation

Mitsubishi Electric

Mmw Biomedical

Hubei YJT Technology

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Contents

CHAPTER 1:INTRODUCTION

1.1.Report description
1.2.Key benefits for stakeholders
1.3.Key market segments
1.4.Research methodology
  1.4.1.Primary research
  1.4.2.Secondary research
  1.4.3.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

2.1.Key findings
  2.1.1.Top impacting factors
  2.1.2.Top investment pockets
2.2.CXO perspective

CHAPTER 3:MARKET OVERVIEW

3.1.Market definition and scope
3.2.Key forces shaping millimeter wave technology market
3.3.Patent analysis
  3.3.1.Millimeter wave technology system, by region (2019-2020)
  3.3.2.Millimeter wave technology, by applicant
3.4.Market dynamics
  3.4.1.Drivers
    3.4.1.1.Increase in testing of 5G technology in the U.S., Japan, South Korea, and China
    3.4.1.2.Rise in demand for smart devices
    3.4.1.3.Surge in use of millimeter wave technology-based scanner systems in airports
  3.4.2.Restraint
    3.4.2.1.Adverse impact of millimeter wave technology on the environment
  3.4.3.Opportunities
    3.4.3.1.Increase in usage of millimeter wave technology in military and defense sector
    3.4.3.2.Rise in demand for autonomous vehicles
3.5.COVID-19 impact analysis

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3.5.1.COVID-19 outbreak
3.5.2.Impact on market size
3.5.3.End user trends, preferences, and budget impact
3.5.4.Parent industry impact
3.5.5.Key player strategies to tackle negative impact
3.5.5.1.Limiting cuts to R&D expense
3.5.5.2.Focusing on next-generation products
3.5.5.3.Shifting toward agile supply chain model
3.5.6.Opportunity window

CHAPTER 4:MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT

4.1.Overview
4.2.Antenna & transceiver components
4.2.1.Key market trends, growth factors, and opportunities
4.2.2.Market size and forecast, by region
4.2.3.Market analysis, by country
4.3.Frequency sources & related components
4.3.1.Key market trends, growth factors, and opportunities
4.3.2.Market size and forecast, by region
4.3.3.Market analysis, by country
4.4.Communication & networking components
4.4.1.Key market trends, growth factors, and opportunities
4.4.2.Market size and forecast, by region
4.4.3.Market analysis, by country
4.5.Imaging components
4.5.1.Key market trends, growth factors, and opportunities
4.5.2.Market size and forecast, by region
4.5.3.Market analysis, by country
4.6.RF & radio components
4.6.1.Key market trends, growth factors, and opportunities
4.6.2.Market size and forecast, by region
4.6.3.Market analysis, by country
4.7.Sensors & controls
4.7.1.Key market trends, growth factors, and opportunities
4.7.2.Market size and forecast, by region
4.7.3.Market analysis, by country
4.8.Others
4.8.1.Key market trends, growth factors, and opportunities

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info@marketpublishers.com

4.8.2.Market size and forecast, by region
4.8.3.Market analysis, by country

CHAPTER 5:MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT

5.1.Overview
5.2.Scanner system
5.2.1.Active system
5.2.2.Passive system
5.2.3.Key market trends, growth factors, and opportunities
5.2.4.Market size and forecast, by region
5.2.5.Market analysis, by country
5.3.Radar and satellite communications system
5.3.1.Perimeter surveillance radar system
5.3.2.Application-specific radar system
5.3.3.Key market trends, growth factors, and opportunities
5.3.4.Market size and forecast, by region
5.3.5.Market analysis, by country
5.4.Telecommunication equipment
5.4.1.Mobile backhaul equipment
5.4.2.Small-cell equipment
5.4.3.Macro-cell equipment
5.4.4.Key market trends, growth factors, and opportunities
5.4.5.Market size and forecast, by region
5.4.6.Market analysis, by country

CHAPTER 6:MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE

6.1.Overview
6.2.Light licensed
6.2.1.Key market trends, growth factors, and opportunities
6.2.2.Market size and forecast, by region
6.2.3.Market analysis, by country
6.3.Unlicensed frequency
6.3.1.Key market trends, growth factors, and opportunities
6.3.2.Market size and forecast, by region
6.3.3.Market analysis, by country
6.4.Fully licensed frequency
6.4.1.Key market trends, growth factors, and opportunities

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info@marketpublishers.com

6.4.2.Market size and forecast, by region
6.4.3.Market analysis, by country

CHAPTER 7:MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY

7.1.Overview
7.2.24 GHz to 57 GHz
7.2.1.Key market trends, growth factors, and opportunities
7.2.2.Market size and forecast, by region
7.2.3.Market analysis, by country
7.3.58 GHz to 86 GHz
7.3.1.Key market trends, growth factors, and opportunities
7.3.2.Market size and forecast, by region
7.3.3.Market analysis, by country
7.4.87 GHz to 300 GHz
7.4.1.Key market trends, growth factors, and opportunities
7.4.2.Market size and forecast, by region
7.4.3.Market analysis, by country

CHAPTER 8:MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION

8.1.Overview
8.2.Telecom & datacom
8.2.1.Key market trends, growth factors, and opportunities
8.2.2.Market size and forecast, by region
8.2.3.Market analysis, by country
8.3.Military, defense, & aerospace
8.3.1.Key market trends, growth factors, and opportunities
8.3.2.Market size and forecast, by region
8.3.3.Market analysis, by country
8.4.Automotive
8.4.1.Key market trends, growth factors, and opportunities
8.4.2.Market size and forecast, by region
8.4.3.Market analysis, by country
8.5.Industrial
8.5.1.Key market trends, growth factors, and opportunities
8.5.2.Market size and forecast, by region
8.5.3.Market analysis, by country
8.6.Consumer

+44 20 8123 2220
info@marketpublishers.com

8.6.1.Key market trends, growth factors, and opportunities
8.6.2.Market size and forecast, by region
8.6.3.Market analysis, by country
8.7.Medical
8.7.1.Key market trends, growth factors, and opportunities
8.7.2.Market size and forecast, by region
8.7.3.Market analysis, by country
8.8.Others
8.8.1.Key market trends, growth factors, and opportunities
8.8.2.Market size and forecast, by region
8.8.3.Market analysis, by country

CHAPTER 9:MILLIMETER WAVE TECHNOLOGY MARKET, BY REGION

9.1.Overview
9.2.North America
9.2.1.Key market trends, growth factors, and opportunities
9.2.2.Market size and forecast, by component
9.2.3.Market size and forecast, by product
9.2.4.Market size and forecast, by license type
9.2.5.Market size and forecast, by frequency type
9.2.6.Market size and forecast, by application
9.2.7.Market analysis, by country
9.2.7.1.U.S.
9.2.7.1.1.Market size and forecast, by component
9.2.7.1.2.Market size and forecast, by product
9.2.7.1.3.Market size and forecast, by license type
9.2.7.1.4.Market size and forecast, by frequency type
9.2.7.1.5.Market size and forecast, by application
9.2.7.2.Canada
9.2.7.2.1.Market size and forecast, by component
9.2.7.2.2.Market size and forecast, by product
9.2.7.2.3.Market size and forecast, by license type
9.2.7.2.4.Market size and forecast, by frequency type
9.2.7.2.5.Market size and forecast, by application
9.2.7.3.Mexico
9.2.7.3.1.Market size and forecast, by component
9.2.7.3.2.Market size and forecast, by product
9.2.7.3.3.Market size and forecast, by license type

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9.2.7.3.4.Market size and forecast, by frequency type
9.2.7.3.5.Market size and forecast, by application
9.3.Europe
9.3.1.Key market trends, growth factors, and opportunities
9.3.2.Market size and forecast, by component
9.3.3.Market size and forecast, by product
9.3.4.Market size and forecast, by license type
9.3.5.Market size and forecast, by frequency type
9.3.6.Market size and forecast, by application
9.3.7.Market analysis, by country
9.3.7.1.UK
9.3.7.1.1.Market size and forecast, by component
9.3.7.1.2.Market size and forecast, by product
9.3.7.1.3.Market size and forecast, by license type
9.3.7.1.4.Market size and forecast, by frequency type
9.3.7.1.5.Market size and forecast, by application
9.3.7.2.Germany
9.3.7.2.1.Market size and forecast, by component
9.3.7.2.2.Market size and forecast, by product
9.3.7.2.3.Market size and forecast, by license type
9.3.7.2.4.Market size and forecast, by frequency type
9.3.7.2.5.Market size and forecast, by application
9.3.7.3.France
9.3.7.3.1.Market size and forecast, by component
9.3.7.3.2.Market size and forecast, by product
9.3.7.3.3.Market size and forecast, by license type
9.3.7.3.4.Market size and forecast, by frequency type
9.3.7.3.5.Market size and forecast, by application
9.3.7.4.Italy
9.3.7.4.1.Market size and forecast, by component
9.3.7.4.2.Market size and forecast, by product
9.3.7.4.3.Market size and forecast, by license type
9.3.7.4.4.Market size and forecast, by frequency type
9.3.7.4.5.Market size and forecast, by application
9.3.7.5.Rest of Europe
9.3.7.5.1.Market size and forecast, by component
9.3.7.5.2.Market size and forecast, by product
9.3.7.5.3.Market size and forecast, by license type
9.3.7.5.4.Market size and forecast, by frequency type

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info@marketpublishers.com

9.3.7.5.5.Market size and forecast, by application
9.4.Asia-Pacific
9.4.1.Key market trends, growth factors, and opportunities
9.4.2.Market size and forecast, by component
9.4.3.Market size and forecast, by product
9.4.4.Market size and forecast, by license type
9.4.5.Market size and forecast, by frequency type
9.4.6.Market size and forecast, by application
9.4.7.Market analysis, by country
9.4.7.1.China
9.4.7.1.1.Market size and forecast, by component
9.4.7.1.2.Market size and forecast, by product
9.4.7.1.3.Market size and forecast, by license type
9.4.7.1.4.Market size and forecast, by frequency type
9.4.7.1.5.Market size and forecast, by application
9.4.7.2.Japan
9.4.7.2.1.Market size and forecast, by component
9.4.7.2.2.Market size and forecast, by product
9.4.7.2.3.Market size and forecast, by license type
9.4.7.2.4.Market size and forecast, by frequency type
9.4.7.2.5.Market size and forecast, by application
9.4.7.3.India
9.4.7.3.1.Market size and forecast, by component
9.4.7.3.2.Market size and forecast, by product
9.4.7.3.3.Market size and forecast, by license type
9.4.7.3.4.Market size and forecast, by frequency type
9.4.7.3.5.Market size and forecast, by application
9.4.7.4.Australia
9.4.7.4.1.Market size and forecast, by component
9.4.7.4.2.Market size and forecast, by product
9.4.7.4.3.Market size and forecast, by license type
9.4.7.4.4.Market size and forecast, by frequency type
9.4.7.4.5.Market size and forecast, by application
9.4.7.5.South Korea
9.4.7.5.1.Market size and forecast, by component
9.4.7.5.2.Market size and forecast, by product
9.4.7.5.3.Market size and forecast, by license type
9.4.7.5.4.Market size and forecast, by frequency type
9.4.7.5.5.Market size and forecast, by application

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info@marketpublishers.com

9.4.7.6.Rest of Asia-Pacific
9.4.7.6.1.Market size and forecast, by component
9.4.7.6.2.Market size and forecast, by product
9.4.7.6.3.Market size and forecast, by license type
9.4.7.6.4.Market size and forecast, by frequency type
9.4.7.6.5.Market size and forecast, by application
9.5.LAMEA
9.5.1.Key market trends, growth factors, and opportunities
9.5.2.Market size and forecast, by component
9.5.3.Market size and forecast, by product
9.5.4.Market size and forecast, by license type
9.5.5.Market size and forecast, by frequency type
9.5.6.Market size and forecast, by application
9.5.7.Market analysis, by country
9.5.7.1.Latin America
9.5.7.1.1.Market size and forecast, by component
9.5.7.1.2.Market size and forecast, by product
9.5.7.1.3.Market size and forecast, by license type
9.5.7.1.4.Market size and forecast, by frequency type
9.5.7.1.5.Market size and forecast, by application
9.5.7.2.Middle East
9.5.7.2.1.Market size and forecast, by component
9.5.7.2.2.Market size and forecast, by product
9.5.7.2.3.Market size and forecast, by license type
9.5.7.2.4.Market size and forecast, by frequency type
9.5.7.2.5.Market size and forecast, by application
9.5.7.3.Africa
9.5.7.3.1.Market size and forecast, by component
9.5.7.3.2.Market size and forecast, by product
9.5.7.3.3.Market size and forecast, by license type
9.5.7.3.4.Market size and forecast, by frequency type
9.5.7.3.5.Market size and forecast, by application

CHAPTER 10:COMPETITIVE LANDSCAPE

10.1.Introduction
10.1.1.Market player positioning, 2019
10.2.Top winning strategies
10.2.1.Top winning strategies, by year

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10.2.2.Top winning strategies, by development
10.2.3.Top winning strategies, by company
10.3.Product mapping of top 10 player
10.4.Competitive dashboard
10.5.Competitive heat map

CHAPTER 11:COMPANY PROFILE

11.1.BRIDGEWAVE COMMUNICATIONS (REMEC BROADBAND WIRELESS NETWORKS)
11.1.1.Company overview
11.1.2.Key executives
11.1.3.Company snapshot
11.1.4.Product portfolio
11.1.5.Key strategic moves and developments
11.2.CABLEFREE: WIRELESS EXCELLENCE
11.2.1.Company overview
11.2.2.Key executives
11.2.3.Company snapshot
11.2.4.Product portfolio
11.3.E-BAND COMMUNICATIONS, LLC
11.3.1.Company overview
11.3.2.Key executives
11.3.3.Company snapshot
11.3.4.Product portfolio
11.4.FARRAN TECHNOLOGY
11.4.1.Company overview
11.4.2.Key executives
11.4.3.Company snapshot
11.4.4.Product portfolio
11.5.KEYSIGHT TECHNOLOGIES
11.5.1.Company overview
11.5.2.Company snapshot
11.5.3.Operating business segments
11.5.4.Product portfolio
11.5.5.R&D expenditure
11.5.6.Business performance
11.5.7.Key strategic moves and developments
11.6.L3 TECHNOLOGIES, INC.

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info@marketpublishers.com

11.6.1.Company overview
11.6.2.Key executives
11.6.3.Company snapshot
11.6.4.Operating business segments
11.6.5.Product portfolio
11.6.6.R&D expenditure
11.6.7.Business performance
11.6.8.Key strategic moves and developments
11.7.MILLIMETER WAVE PRODUCTS INC.
11.7.1.Company overview
11.7.2.Key executives
11.7.3.Company snapshot
11.7.4.Product portfolio
11.8.NEC CORPORATION
11.8.1.Company overview
11.8.2.Key executives
11.8.3.Company snapshot
11.8.4.Operating business segments
11.8.5.Product portfolio
11.8.6.R&D expenditure
11.8.7.Business performance
11.8.8.Key strategic moves and developments
11.9.SAGE MILLIMETER, INC.
11.9.1.Company overview
11.9.2.Key Executives
11.9.3.Company snapshot
11.9.4.Product portfolio
11.10.SIKLU COMMUNICATION
11.10.1.Company overview
11.10.2.Key executives
11.10.3.Company snapshot
11.10.4.Product portfolio
11.10.5.Key strategic moves and developments
11.11.FUJITSU LIMITED
11.11.1.Company overview
11.11.2.Company snapshot
11.11.3.Operating business segments
11.11.4.Product portfolio
11.11.5.R&D Expenditure

+44 20 8123 2220
info@marketpublishers.com

11.11.6.Business performance
11.11.7.Key strategic moves and developments
11.12.DENSO CORPORATION
11.12.1.Company overview
11.12.2.Company snapshot
11.12.3.Operating business segments
11.12.4.Product portfolio
11.12.5.R&D expenditure
11.12.6.Business performance
11.12.7.Key strategic moves and developments
11.13.MITSUBISHI ELECTRIC CORPORATION
11.13.1.Company overview
11.13.2.Company snapshot
11.13.3.Operating business segments
11.13.4.Product portfolio
11.13.5.R&D expenditure
11.13.6.Business performance
11.13.7.Key strategic moves and developments
11.14.MMW BIOMEDICAL ENGINEERING TECH
11.14.1.Company overview
11.14.2.Company snapshot
11.14.3.Operating business segments
11.15.HUBEI YJT TECHNOLOGY CO., LTD.
11.15.1.Company overview
11.15.2.Key executive
11.15.3.Company snapshot
11.15.4.Product portfolio

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List Of Tables

LIST OF TABLES

TABLE 01.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT, 2019-2027 ($MILLION)
TABLE 02.MILLIMETER WAVE TECHNOLOGY MARKET FOR ANTENNA & TRANSCEIVER COMPONENTS, BY REGION 2019–2027 ($MILLION)
TABLE 03.MILLIMETER WAVE TECHNOLOGY MARKET FOR FREQUENCY SOURCES & RELATED COMPONENTS, BY REGION 2019–2027($MILLION)
TABLE 04.MILLIMETER WAVE TECHNOLOGY MARKET FOR COMMUNICATION & NETWORKING COMPONENTS, BY REGION 2019–2027($MILLION)
TABLE 05.MILLIMETER WAVE TECHNOLOGY MARKET FOR IMAGING COMPONENTS, BY REGION 2019–2027($MILLION)
TABLE 06.MILLIMETER WAVE TECHNOLOGY MARKET FOR RF & RADIO COMPONENTS, BY REGION 2019–2027($MILLION)
TABLE 07.MILLIMETER WAVE TECHNOLOGY MARKET FOR SENSORS & CONTROLS, BY REGION 2019–2027($MILLION)
TABLE 08.MILLIMETER WAVE TECHNOLOGY MARKET FOR OTHERS, BY REGION 2019–2027($MILLION)
TABLE 09.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET REVENUE, BY PRODUCT, 2019-2027 ($MILLION)
TABLE 10.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET VOLUME, BY PRODUCT, 2019-2027 (THOUSAND UNITS)
TABLE 11.MILLIMETER WAVE TECHNOLOGY MARKET FOR SCANNER SYSTEM, BY REGION 2019–2027 ($MILLION)
TABLE 12.MILLIMETER WAVE TECHNOLOGY MARKET FOR RADAR AND SATELLITE COMMUNICATIONS SYSTEM, BY REGION 2019–2027($MILLION)
TABLE 13.MILLIMETER WAVE TECHNOLOGY MARKET FOR TELECOMMUNICATIN EQUIPMENT, BY REGION 2019–2027($MILLION)
TABLE 14.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE, 2019-2027 ($MILLION)
TABLE 15.MILLIMETER WAVE TECHNOLOGY MARKET FOR LIGHT LICENSED FREQUENCY, BY REGION 2019–2027 ($MILLION)
TABLE 16.MILLIMETER WAVE TECHNOLOGY MARKET FOR UNLICENSED FREQUENCY, BY REGION 2019–2027($MILLION)
TABLE 17.MILLIMETER WAVE TECHNOLOGY MARKET FOR FULLY LICENSED FREQUENCY, BY REGION 2019–2027($MILLION)
TABLE 18.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY,

+44 20 8123 2220
info@marketpublishers.com

2019-2027 ($MILLION)
TABLE 19.MILLIMETER WAVE TECHNOLOGY MARKET FOR 24 GHZ TO 57 GHZ, BY REGION 2019–2027 ($MILLION)
TABLE 20.MILLIMETER WAVE TECHNOLOGY MARKET FOR 58 GHZ TO 86 GHZ, BY REGION 2019–2027($MILLION)
TABLE 21.MILLIMETER WAVE TECHNOLOGY MARKET FOR 87 GHZ TO 300 GHZ, BY REGION 2019–2027($MILLION)
TABLE 22.GLOBAL MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION, 2019-2027 ($MILLION)
TABLE 23.TELECOM/DATACOM-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 24.MILLIMETER WAVE TECHNOLOGY MARKET FOR TELECOM & DATACOM, BY REGION 2019–2027($MILLION)
TABLE 25.MILITARY, DEFENSE & AEROSPACE -MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 26.MILLIMETER WAVE TECHNOLOGY MARKET FOR MILITARY, AEROSPACE AND DEFENSE, BY REGION 2019–2027($MILLION)
TABLE 27.AUTOMOTIVE-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 28.MILLIMETER WAVE TECHNOLOGY MARKET FOR AUTOMOTIVE, BY REGION 2019–2027($MILLION)
TABLE 29.INDUSTRIAL-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 30.MILLIMETER WAVE TECHNOLOGY MARKET FOR INDUSTRIAL, BY REGION 2019–2027($MILLION)
TABLE 31.CONSUMER-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 32.MILLIMETER WAVE TECHNOLOGY MARKET FOR CONSUMER, BY REGION 2019–2027($MILLION)
TABLE 33.MEDICAL-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 34.MILLIMETER WAVE TECHNOLOGY MARKET FOR MEDICAL, BY REGION 2019–2027($MILLION)
TABLE 35.OTHERS-MAJOR PRODUCTS AND SPECIFICATIONS
TABLE 36.MILLIMETER WAVE TECHNOLOGY MARKET FOR OTHERS, BY REGION 2019–2027($MILLION)
TABLE 37.NORTH AMERICA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 38.NORTH AMERICA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 39.NORTH AMERICA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 40.NORTH AMERICA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)

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TABLE 41.NORTH AMERICA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 42.U.S. MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 43.U.S. MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 44.U.S. MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 45.U.S. MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 46.U.S. MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 47.CANADA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 48.CANADA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 49.CANADA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 50.CANADA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 51.CANADA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 52.MEXICO MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 53.MEXICO MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 54.MEXICO MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 55.MEXICO MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 56.MEXICO MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 57.EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 58.EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 59.EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 60.EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY

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TYPE 2019–2027($MILLION)
TABLE 61.EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 62.UK MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 63.UK MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 64.UK MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 65.UK MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 66.UK MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 67.GERMANY MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 68.GERMANY MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 69.GERMANY MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 70.GERMANY MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 71.GERMANY MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 72.FRANCE MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 73.FRANCE MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 74.FRANCE MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 75.FRANCE MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 76.FRANCE MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 77.ITALY MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 78.ITALY MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 79.ITALY MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)

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TABLE 80.ITALY MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 81.ITALY MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 82.REST OF EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 83.REST OF EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 84.REST OF EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 85.REST OF EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 86.REST OF EUROPE MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 87.ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 88.ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 89.ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 90.ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 91.ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 92.CHINA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 93.CHINA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 94.CHINA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 95.CHINA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 96.CHINA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 97.JAPAN MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 98.JAPAN MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 99.JAPAN MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE

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2019–2027($MILLION)
TABLE 100.JAPAN MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 101.JAPAN MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 102.INDIA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 103.INDIA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 104.INDIA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 105.INDIA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 106.INDIA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 107.AUSTRALIA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 108.AUSTRALIA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 109.AUSTRALIA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 110.AUSTRALIA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 111.AUSTRALIA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 112.SOUTH KOREA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 113.SOUTH KOREA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 114.SOUTH KOREA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 115.SOUTH KOREA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 116.SOUTH KOREA MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 117.REST OF ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 118.REST OF ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)

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TABLE 119.REST OF ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 120.REST OF ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY TYPE 2019–2027($MILLION)
TABLE 121.REST OF ASIA-PACIFIC MILLIMETER WAVE TECHNOLOGY MARKET, BY APPLICATION 2019–2027($MILLION)
TABLE 122.LAMEA MILLIMETER WAVE TECHNOLOGY MARKET, BY COMPONENT 2019–2027($MILLION)
TABLE 123.LAMEA MILLIMETER WAVE TECHNOLOGY MARKET, BY PRODUCT 2019–2027($MILLION)
TABLE 124.LAMEA MILLIMETER WAVE TECHNOLOGY MARKET, BY LICENSE TYPE 2019–2027($MILLION)
TABLE 125.LAMEA MILLIMETER WAVE TECHNOLOGY MARKET, BY FREQUENCY

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