

Quantum Sensors: Quantum Entanglement for Communications and Beyond

<https://marketpublishers.com/r/QE44A4C3A65EN.html>

Date: August 2019

Pages: 158

Price: US\$ 2,750.00 (Single User License)

ID: QE44A4C3A65EN

Abstracts

REPORT SCOPE:

The quantum sensors market is segmented into the following categories:

By product type: atomic clocks, magnetic sensors, photosynthetically active radiation (PAR) quantum sensors, and gravity sensors.

By application: military and defense, automotive, healthcare, agriculture, oil and gas, and others.

By region: North America is segmented into the United States, Canada, and Mexico; Europe is segmented into the United Kingdom, Russia, Italy, Germany, and Rest of Europe; Asia-

Pacific is segmented into China, Japan, India, and Rest of Asia-Pacific; Rest of the World (RoW) is segmented into Brazil, the Middle East, Africa, and Rest of RoW.

In addition to industry and competitive analyses of the quantum sensors market, this report also provides an exhaustive patent analysis and a listing of company profiles of key players active in the global market.

REPORT INCLUDES:

34 data tables and 47 additional tables

Brief overview of the global quantum sensors market and applications of quantum entanglement for communications

Analyses of the global market trends with data from 2018, estimates for 2019, and projections of compound annual growth rates (CAGRs) through 2024

Identification of segments with high growth potential and understand future applications in these segments

Comprehend opportunities and highlights of the innovation-driven quantum sensors market and the major regions and countries involved in market developments

Assessment of key trends related to the global market and the various product types and end-use applications that will influence the quantum sensors industry

Examination of major stakeholders in the market and the competitive landscape for market leaders and their growth strategies

An exhaustive patent analysis with relevant patent data

Company profiles of key players active in the global market, including AOSense, Apogee Instruments Inc., GWR Instruments Inc., Microsemi Corp., M Squared Laser Ltd., Sea-Bird Scientific and Skye Instruments Ltd.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Research Methodology
Intended Audience
Information Sources
Regional Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Market Definition and the Evolution of Quantum Sensors
Concept of Quantum Entanglement for Communication
The Einstein-Rosen-Podolsky Paradox
The Zeno Effect
Interferometers and Their Functioning
Specialized Lasers and Their Functioning
Future Outlook and Expectations
Medical Treatment
Natural Disasters
Health Benefits
Defense and Military
Agriculture
Market Dynamics
Drivers
Restraints
Key Developments in the Field of Quantum Sensors
Quotes by Key Opinion Leaders
Value Chain Analysis
Quantum Sensor Components
Sensor Design and Manufacture

Assemblers and Fabricators
Application
Distributors
End Users

CHAPTER 4 MARKET BREAKDOWN BY PRODUCT TYPE

Introduction
Atomic Clocks
Magnetic Sensors
PAR Quantum Sensors
Gravity Sensors

CHAPTER 5 MARKET BREAKDOWN BY APPLICATION

Introduction
Military and Defense
Automotive
Healthcare
Agriculture
Oil and Gas
Others

CHAPTER 6 MARKET BREAKDOWN BY REGION

Introduction
North America
Europe
Asia-Pacific
Rest of the World

CHAPTER 7 ANALYSIS OF MARKET OPPORTUNITIES

Growing Popularity of Quantum Technology in the Oil and Gas Sector
Lucrative Opportunities Offered by the IoT
Huge Untapped Opportunity in Developing Countries
Market Share Analysis

CHAPTER 8 PATENT REVIEW AND NEW DEVELOPMENTS

Quantum Sensors: Quantum Entanglement for Communications and Beyond

Patent Review by Year and Country
Important Quantum Technology Patents

CHAPTER 9 COMPANY PROFILES

ADCON TELEMETRY GMBH
ADVA OPTICAL NETWORKING SE
AOSENSE INC.
APOGEE INSTRUMENTS INC.
ASAHI KASEI MICRODEVICES CORP.
BIOSPHERICAL INSTRUMENTS INC.
CAMPBELL SCIENTIFIC LTD.
GWR INSTRUMENTS INC.
IMPEDANS LTD.
IRRADIAN LTD.
KEYENCE CORP.
LI-COR BIOSCIENCES INC.
M SQUARED LASERS LTD.
MESOTECH INTERNATIONAL INC.
METER GROUP
MICROSEMI CORP.
MUQUANS SAS
NUCRYPT LLC
OSCILLOQUARTZ SA
RADIX ELECTROSYSTEMS PVT. LTD.
SEA-BIRD SCIENTIFIC INC.
SILICON LABORATORIES INC.
SK TELECOM CO., LTD.
SKYE INSTRUMENTS LTD.
SOLAR LIGHT COMPANY INC.
SPECTRUM TECHNOLOGIES INC.
SUPRACON AG
SUTRON CORP. HQ
THOMAS INDUSTRIAL NETWORK INC.
VIRTUAL HYDROMET

List Of Tables

LIST OF TABLES

Summary Table: Global Quantum Sensors Market, by Product Type, Through 2024

Table 1: Global Quantum Sensors Market for Atomic Clocks, by Application, Through 2024

Table 2: Global Quantum Sensors Market for Atomic Clocks, by Region, Through 2024

Table 3: Global Quantum Sensors Market for Magnetic Sensors, by Application, Through 2024

Table 4: Global Quantum Sensors Market for Magnetic Sensors, by Region, Through 2024

Table 5: Global Quantum Sensors Market for PAR Quantum Sensors, by Application, Through 2024

Table 6: Global Quantum Sensors Market for PAR Quantum Sensors, by Region, Through 2024

Table 7: Global Quantum Sensors Market for Gravity Sensors, by Application, Through 2024

Table 8: Global Quantum Sensors Market for Gravity Sensors, by Region, Through 2024

Table 9: Global Quantum Sensors Market for Military and Defense Applications, by Product Type, Through 2024

Table 10: Global Quantum Sensors Market for Military and Defense Applications, by Region, Through 2024

Table 11: Global Quantum Sensors Market for Automotive Applications, by Product Type, Through 2024

Table 12: Global Quantum Sensors Market for Automotive Applications, by Region, Through 2024

Table 13: Global Quantum Sensors Market for Healthcare Applications, by Product Type, Through 2024

Table 14: Global Quantum Sensors Market for Healthcare Applications, by Region, Through 2024

Table 15: Global Quantum Sensors Market for Agricultural Applications, by Product Type, Through 2024

Table 16: Global Quantum Sensors Market for Agricultural Applications, by Region, Through 2024

Table 17: Global Quantum Sensors Market for Oil and Gas Applications, by Product Type, Through 2024

Table 18: Global Quantum Sensors Market for Oil and Gas Applications, by Region, Through 2024

Through 2024

Table 19: Global Quantum Sensors Market for Other Applications, by Product Type, Through 2024

Table 20: Global Quantum Sensors Market for Other Applications, by Region, Through 2024

Table 21: North American Quantum Sensors Market, by Country, Through 2024

Table 22: North American Quantum Sensors Market, by Product Type, Through 2024

Table 23: North American Quantum Sensors Market, by Application, Through 2024

Table 24: European Quantum Sensors Market, by Country, Through 2024

Table 25: European Quantum Sensors Market, by Product Type, Through 2024

Table 26: European Quantum Sensors Market, by Application, Through 2024

Table 27: Asia-Pacific Quantum Sensors Market, by Country, Through 2024

Table 28: Asia-Pacific Quantum Sensors Market, by Product Type, Through 2024

Table 29: Asia-Pacific Quantum Sensors Market, by Application, Through 2024

Table 30: Rest of the World Quantum Sensors Market, by Region, Through 2024

Table 31: Rest of the World Quantum Sensors Market, by Product Type, Through 2024

Table 32: Rest of the World Quantum Sensors Market, by Application, Through 2024

Table 33: Global Market Share Analysis for Quantum Sensors, by Company, 2018

Table 34: Methods and Systems for Quantum Ready and Quantum Enabled Computations

Table 35: Methods and Systems for Quantum Computing

Table 36: Method of Manufacturing Multicolor Quantum Dot Pattern

Table 37: Quantum Cascade Laser (QCL) Based Gas Sensing System and Method

Table 38: Perturbing the Contextualization of a Proposition by a Group of Subjects Considered in a Quantum Representation by Injecting a Subject Exhibiting an Anti-Consensus Statistic Modulo the Proposition

Table 39: Quantum Dot Light-emitting Devices (QLEDs) and Method of Manufacture

Table 40: Flexible Modular Hierarchical Adaptively Controlled Electronic-System Cooling and Energy Harvesting for IC Chip Packaging, Printed Circuit Boards, Subsystems, Cages, Racks, IT Rooms, and Data Centers Using Quantum and Classical Thermoelectric Materials

Table 41: Systems and Methods for enhancing data protection by Anonosizing Structured and Unstructured Data and Incorporating Machine Learning and Artificial Intelligence in Classical and Quantum Computing Environments

Table 42: Computerized System for Real-Time Resource Transfer Verification and Tracking

Table 43: Systems and Methods for Atomizing and Individuating Data as Data Quanta

Table 44: Method of Manufacturing Multicolor Quantum Dot Pattern, Multicolor Quantum Dot Pattern Formed by the Method, and Quantum Dot Light-Emitting Device

for the Method

Table 45: Systems and Methods for Quantum Computation Using Random Compiling

Table 46: Methods and Systems for Quantum Ready Computations on the Cloud

Table 47: Quantum True Random Number Generator

Table 48: Bioinformatics Systems, Apparatuses, and Methods Executed on a Quantum Processing Platform

Table 49: Capacitive Sensor System

Table 50: Quantum Dot Composite Material and Manufacturing Method and Application Thereof

Table 51: Quantum Computing Machine Learning Module

Table 52: Image Sensor with Non-Local Readout Circuit and Optoelectronic Device Comprising Said Image Sensor

Table 53: Semiconductor Structure with Two Optically Coupled Resonant Cavities and Method for Manufacturing Such with Structure

Table 54: Ultra-High-Density Oligomer Arrays and Methods of Making the Same

Table 55: Quantum Therapy Equipment

Table 56: Quantum Dot Sheet, Backlight and Liquid Crystal Display

Table 57: Method and Device for Optics-Based Quantum Random Number Generator

Table 58: Backlight with Quantum Dot Sheet and Liquid Crystal Display Device with Said Backlight

Table 59: Footwear Having Sensor System

Table 60: Method and System for Improving Reliability of Orthogonally Redundant Sensor

Table 61: Integrated Bound Mode Spectrum/Angle Sensor

Table 62: Image Sensor with Non-Local Readout Circuit and Optoelectronic Device Comprising This Image Sensor

Table 63: Optical Spectrum Measuring Apparatus

Table 64: Developments at ADCON Telemetry GmbH

Table 65: Developments at ADVA Networking Optical

Table 66: Developments at AOSense Inc.

Table 67: Developments at Apogee Instruments Inc.

Table 68: Developments at Asahi Kasei Microdevices Corp.

Table 69: Developments at Biospherical Instruments Inc.

Table 70: Developments at Campbell Scientific Ltd.

Table 71: Developments at Impedans Ltd.

Table 72: Developments at Li-Cor Biosciences Inc.

Table 73: Developments at M Squared Lasers Ltd.

Table 74: Developments at Microsemi Corp.

Table 75: Developments at Muquans SAS

Table 76: Developments at Silicon Laboratories Inc.

Table 77: Developments at SK Telecom

Table 78: Developments at Skye Instruments Ltd.

Table 79: Developments at Spectrum Technologies Inc.

Table 80: Developments at Sutron Corp. HQ

List Of Figures

LIST OF FIGURES

Summary Figure: Global Quantum Sensors Market, by Product Type, 2018–2024

Figure 1: Value Chain Analysis

Figure 2: Global Quantum Sensors Market for Atomic Clocks, by Application, 2018–2024

Figure 3: Global Quantum Sensors Market for Atomic Clocks, by Region, 2018–2024

Figure 4: Global Quantum Sensors Market for Magnetic Sensors, by Application, 2018–2024

Figure 5: Global Quantum Sensors Market for Magnetic Sensors, by Region, 2018–2024

Figure 6: Global Quantum Sensors Market for PAR Quantum Sensors, by Application, 2018–2024

Figure 7: Global Quantum Sensors Market for PAR Quantum Sensors, by Region, 2018–2024

Figure 8: Global Quantum Sensors Market for Gravity Sensors, by Application, 2018–2024

Figure 9: Global Quantum Sensors Market for Gravity Sensors, by Region, 2018–2024

Figure 10: Global Quantum Sensors Market for Military and Defense Applications, by Product Type, 2018–2024

Figure 11: Global Quantum Sensors Market for Military and Defense Applications, by Region, 2018–2024

Figure 12: Global Quantum Sensors Market for Automotive Applications, by Product Type, 2018–2024

Figure 13: Global Quantum Sensors Market for Automotive Applications, by Region, 2018–2024

Figure 14: Global Quantum Sensors Market for Healthcare Applications, by Product Type, 2018–2024

Figure 15: Global Quantum Sensors Market for Healthcare Applications, by Region, 2018–2024

Figure 16: Global Quantum Sensors Market for Agricultural Applications, by Product Type, 2018–2024

Figure 17: Global Quantum Sensors Market for Agricultural Applications, by Region, 2018–2024

Figure 18: Global Quantum Sensors Market for Oil and Gas Applications, by Product Type, 2018–2024

Figure 19: Global Quantum Sensors Market for Oil and Gas Applications, by Region, 2018–2024

2018–2024

Figure 20: Global Quantum Sensors Market for Other Applications, by Product Type, 2018–2024

Figure 21: Global Quantum Sensors Market for Other Applications, by Region, 2018–2024

Figure 22: North American Quantum Sensors Market, by Country, 2018–2024

Figure 23: North American Quantum Sensors Market, by Product Type, 2018–2024

Figure 24: North America Quantum Sensors Market, by Application, 2018–2024

Figure 25: European Quantum Sensors Market, by Country, 2018–2024

Figure 26: European Quantum Sensors Market, by Product Type, 2018–2024

Figure 27: European Quantum Sensors Market, by Application, 2018–2024

Figure 28: Asia-Pacific Quantum Sensors Market, by Country, 2018–2024

Figure 29: Asia-Pacific Quantum Sensors Market, by Product Type, 2018–2024

Figure 30: Asia-Pacific Quantum Sensors Market, by Application, 2018–2024

Figure 31: Rest of the World Quantum Sensors Market, by Region, 2018–2024

Figure 32: Rest of the World Quantum Sensors Market, by Product Type, 2018–2024

Figure 33: Rest of the World Quantum Sensors Market, by Application, 2018–2024

Figure 34: Global Patent Shares for the Quantum Sensors Market, 2014-2018

Figure 35: Global Patent Shares for the Quantum Sensors Market, by Country, 2015-2018

I would like to order

Product name: Quantum Sensors: Quantum Entanglement for Communications and Beyond

Product link: <https://marketpublishers.com/r/QE44A4C3A65EN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/QE44A4C3A65EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970