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Smart City Technology Convergence: AI, Broadband Wireless (LTE, 5G and Beyond 5G), Data Analytics, Device Management, and IIoT Applications, Services, and Solutions for Smart Cities 2021 – 2026

https://marketpublishers.com/r/SFDAF9704324EN.html
Date: January 2021
Pages: 947
Price: US$ 5,000.00 (Single User License)
ID: SFDAF9704324EN

Abstracts

Overview:

Smart cities represent a combination of solutions deployed in an urban environment to transform the administration and support of living and working environments. Accordingly, Information and Communications Technologies (ICT) are transforming at a rapid rate, driven by urbanization, industrialization of emerging economies, and the specific needs of various smart city initiatives.

Smart city development is emerging as a focal point for growth drivers in several key ICT areas including: Artificial Intelligence, Internet of Things, Connected Devices, Broadband Wireless, Cloud Computing, Big Data and Analytics. This research covers all of these technologies with analysis from 2021 though 2026.

Select Research Findings:

Global AIoT market will reach $81.5B by 2026, growing at 37.2% CAGR

Global market for IoT data as service solutions will reach $9.3B USD by 2026

5GNR market for private wireless in industrial automation will reach $5.2B by 2026

Embedded AI software and systems in support of IoT will surpass $9B globally

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by 2026

Machine learning in edge computing will be key to realize the full potential of IoT analytics

Successful smart cities will be dependent on intelligent integration of 5G, AI, edge computing and IoT

Sustainable smart city technology deployments depend upon careful planning and execution as well as monitoring and adjustments as necessary. For example, feature/functionality must be blended to work efficiently across many different industry verticals as smart cities address the needs of disparate market segments with multiple overlapping and sometimes mutually exclusive requirements. This will stimulate the need for both cross-industry coordination as well as orchestration of many different capabilities across several important technologies.

Mind Commerce sees smart cities as a focal point for growth drivers in several key ICT areas including: M2M/IoT, connected devices, broadband wireless, cloud computing, big data and analytics. Smart city developments are causing solution providers to take a much more integrated approach as the design and implement infrastructure and service capabilities.

Processes, systems, and resources are becoming increasingly intertwined as mobility, communications, energy, water, platforms, monitoring/control, performance management, predictability and forecasting all merge together. Feature/functionality must be blended to work efficiently across many different industry verticals as smart cities address the needs of disparate market segments with multiple overlapping and sometimes mutually exclusive requirements.

This comprehensive research evaluates the smart cities market including leading vendors and strategies (such as a single vendor centric approach), infrastructure, solutions, applications and services. It analyzes market factors driving solution adoption, technology readiness and fitness for use, and other considerations. The report assesses the aforementioned factors to derive penetration and revenue to forecast market value for the period of 2021 – 2026. It includes analysis of the role of technology accelerating digital transformation including AI, edge processing, 5G deployment and usage, and advanced data analytics.

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In terms of the impact of AI technologies, the research evaluates integration within various networking products and solutions including embedded equipment, components, and software platforms (network automation, optimization, and transformation). It also evaluates the role of SDN, Edge Computing, NFV, and Augmented Intelligence in the formation and support of AI driven networking ecosystems. In addition, the impact of 5G networks, IoT technology and systems, and network analytics functions is also evaluated.

This includes key AI technologies, products, and solutions from most important solution providers, identifying key companies in each segment of the competitive landscape. It also provides a comprehensive quantitative assessment of the AI driven networking market based on major market segments and subsegments, AI technology type, deployment type, network type, industry vertical and region from 2021 through 2026.

This research also provides the most comprehensive study available addressing the LTE and 5G application and service market. This report evaluates cellular broadband applications and services including revenue and usage (subscribers/users) by LTE, LTE Advanced, LTE Advanced Pro, and 5G. This includes an assessment of LTE and 5G in private wireless networks as well as market opportunities for Mobile Edge Computing (MEC) in public and private networks including the market for computing as a service.

This research also evaluates IIoT technologies, companies, applications, services, and solutions. Report forecasts include overall global and regional IIoT outlook as well as IIoT by industry vertical, software, hardware, and services for the period 2021 to 2026. This research is critical to identifying opportunities for R&D, technology integration, and development of new solutions and applications across industry segments.

It includes an evaluation of the IoT device management market, which encompasses device provisioning, administration, monitoring, and diagnostics important for trouble replication and corrective measures. Important IoT Device Management functions include Enrollment/Provisioning, Configuration/Association, Software Updates, and overall Management and Control.

Target Audience:

Wireless service providers of all types

Sensor network and component providers

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Wireless device and components manufacturers

Smart appliances and electronic devices companies

Security device and monitoring equipment suppliers

Software developers and mobile/wireless app developers

Companies in Report:

ABB Group

Accenture PLC

Advantech

Aeris Communications

AGT International

AIBrian Inc.

Airspan

Airtel

Alibaba

Allegro

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Arista Networks Inc.

ARM Holdings

Ascom

Asus

AT&T

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ATOS

B+B SmartWorx

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Barbara IoT

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Dish

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Emerson Electric Co.

Entel

Ericsson AB

ETI Software Solutions

Eurotech

Extreme Networks

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Kapsch Group

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KORE Wireless

KT Corporation

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MACOM Technology

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Motorola

Movistar

Muvi

MYCOM OSI

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Netcracker

Netflix

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NETGEAR

NETSCOUT

Nokia Network

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NTT DATA

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Nuance Communications Inc.

NVIDIA Corporation

Ooredoo

Ooyala

Oracle

Orange SA

Orbcomm

Panasonic Corporation

Particle

Philo TV

Proximetry Inc.

PTC Corporation

Qorvo Inc.

Qualcomm Incorporated

Quickplay

Rakuten

Real Time Innovation

RedLinX

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Rethink Robotics

REVE Systems

Ribbon Communications

Riverbed Technology

Rockwell Automation

Rogers Communications

Roku

Samsung Electronics Co Ltd.

SAP

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Saudi Telecom Company

Schneider Electric SE

Sensata Technologies

Sentient Technologies Holdings Limited

Siemens AG

Sierra Wireless

Signify Holding

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Siretta

SiteWhere LLC.

SK Telecom

Sky Go

Skype

SmithMicro Software

Snap Inc.

Softbank Group

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Sophos Plc

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Spark NZ

Spotify AB

Sprint Corporation

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Vidmind

VMware Inc.

Vodafone Group

Vplayed

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Wind River

Wipro

Worldsensing

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WSO2

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XILINX Inc.

Xively

Zain

Zenitel

Zentri

Zoho Corporation

ZTE Corporation

Zyxel

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4.12 Xively
4.13 PTC Corporation
4.14 Huawei Technologies Co. Ltd.
4.15 ZTE Corporation
4.16 Intel Corporation
4.17 Ericsson AB
4.18 Fujitsu Ltd.
4.19 NEC Corporation
4.20 H2O.ai
4.21 Qualcomm Incorporated
4.22 Juniper Networks, Inc.
4.23 Accenture PLC
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4.25 VMware Inc.
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7.1 E-Commerce Services
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7.3 Manufacturing Services
7.4 Real Estate Services
7.5 Government and Public Services

8.0 COMPANY ANALYSIS

8.1 Google Inc.
8.2 Twitter Inc.
8.3 Microsoft Corporation
8.4 IBM Corporation
8.5 Apple Inc.
8.6 Facebook Inc.
8.7 Amazon.com Inc.
8.8 Skype
8.9 Salesforce.com
8.10 Intel Corporation
8.11 Yahoo Inc.
8.12 AOL Inc.
8.13 NVIDIA Corporation
8.14 x.ai
8.15 Tesla Inc.
8.16 Baidu Inc.
8.17 H2O.ai
8.18 SparkCognition Inc.
8.19 OpenAI
8.20 Inbenta
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8.35 PointGrab Ltd.
8.36 Tellmeplus
8.37 moov
8.38 Sentenai Inc.
8.39 imagimob
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Artificial Intelligence Market by Technology, Infrastructure, Components, Devices, Solutions, and Industry Verticals

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4.9 Competitive Landscape Analysis

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5.1 NVidia Corporation
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5.3 Intel Corporation
5.4 Samsung Electronics Co Ltd.
5.5 Microsoft Corporation
5.6 Google Inc.
5.7 Baidu Inc.
5.8 Qualcomm Incorporated
5.9 Huawei Technologies Co. Ltd.
5.10 Fujitsu Ltd.
5.11 H2O.ai
5.12 Juniper Networks, Inc.
5.13 Nokia Corporation
5.14 ARM Limited
5.15 Hewlett Packard Enterprise
5.16 Oracle Corporation
5.17 SAP
5.18 Siemens AG
5.19 Apple Inc.
5.20 General Electric (GE)
5.21 ABB Ltd.
5.22 LG Electronics
5.23 Koninklijke Philips N.V
5.24 Whirlpool Corporation
5.25 AB Electrolux
5.26 Wind River Systems Inc.
5.27 Cumulocity GmBH
5.28 Digital Reasoning Systems Inc.
5.29 SparkCognition Inc.
5.30 KUKA AG
5.31 Rethink Robotics
5.32 Motion Controls Robotics Inc.
5.33 Panasonic Corporation
5.34 Haier Group Corporation
5.35 Miele

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5.36 Next IT Corporation
5.37 Nuance Communications Inc.
5.38 InteliWISE
5.39 Facebook Inc.
5.40 Salesforce
5.41 Amazon Inc.
5.42 SK Telecom
5.43 motion.ai
5.44 Buddy
5.45 AOL Inc.
5.46 Tesla Inc.
5.47 Inbenta Technologies Inc.
5.48 Cisco Systems
5.49 MAANA
5.50 Veros Systems Inc.
5.51 PointGrab Ltd.
5.52 Tellmeplus
5.53 Xiaomi Technology Co. Ltd.
5.54 Leap Motion Inc.
5.55 Atmel Corporation
5.56 Texas Instruments Inc.
5.57 Advanced Micro Devices (AMD) Inc.
5.58 XILINX Inc.
5.59 Omron Adept Technology
5.60 Gemalto N.V.
5.61 Micron Technology
5.62 SAS Institute Inc.
5.63 AIBrian Inc.
5.64 QlikTech International AB
5.65 MicroStrategy Incorporated
5.66 Brighterion Inc.
5.67 IPsoft Inc.
5.68 24/7.ai Inc.
5.69 General Vision Inc.
5.70 Sentient Technologies Holdings Limited
5.71 Graphcore
5.72 CloudMinds
5.73 Rockwell Automation Inc.
5.74 Tend.ai

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5.75 SoftBank Robotics Holding Corp.
5.76 iRobot Corp.
5.77 Lockheed Martin
5.78 Spacex
5.79 Fraight AI
5.80 Infor Global Solutions
5.81 Presenso
5.82 Teknowlogi

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7.3 Automotive Companies
7.4 Broadband Infrastructure Providers
7.5 Communication Service Providers

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7.6 Computing Companies
7.7 Data Analytics Providers
7.8 Immersive Technology (AR, VR, and MR) Providers
7.9 Networking Equipment Providers
7.10 Networking Security Providers
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5.3 BT Group (EE)
5.4 China Mobile
5.5 China Telecom
5.6 Deutsche Telekom AG
5.7 DU (Emirates Integrated Telecommunications Company)
5.8 KT Corporation
5.9 NTT DoCoMo
5.10 STC - Saudi Telecom Company
5.11 SK Telecom
5.12 Sprint Corporation
5.13 Telstra
5.14 Verizon
5.15 Vodafone Group
5.16 Telenor
5.17 T-Mobile USA
5.18 Rogers Communications
5.19 America Movil
5.20 Entel
5.21 Movistar
5.22 China Unicom
5.23 Ooredoo
5.24 Zain
5.25 Swisscom
5.26 Spark NZ
5.27 Telecom Italia
5.28 Orange SA
5.29 KDDI Corporation

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5.30 LG Uplus
5.31 Softbank Group
5.32 SingTel
5.33 Telefonica
5.34 Apple
5.35 Facebook (Whatsapp)
5.36 Google
5.37 Microsoft
5.38 Rakuten (Viber)
5.39 Snap Inc.
5.40 Spotify AB
5.41 Tencent
5.42 Amazon Prime Video
5.43 WeChat
5.44 Skype
5.45 Telegram
5.46 Ribbon Communications
5.47 REVE Systems
5.48 Hulu
5.49 Netflix
5.50 Dish (Sling TV)
5.51 Sky Go
5.52 Roku
5.53 Sony (PlayStation Vue)
5.54 Fubo TV
5.55 Philo TV
5.56 ClipBucket
5.57 Muvi
5.58 Contus Vplay
5.59 Quickplay
5.60 Vplayed
5.61 Ooyala
5.62 Vidmind
5.63 Mobiotics
5.64 Nokia Network (Alcatel lucent)
5.65 Samsung Electronics
5.66 Cisco Systems
5.67 LG Electronics
5.68 Huawei Technologies

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5.69 Ericsson
5.70 Qualcomm
5.71 Intel Corporation
5.72 NEC Corporation
5.73 ZTE Corporation
5.74 Ciena Corporation
5.75 Cavium Inc.
5.76 Qorvo Inc.
5.77 Fujitsu Ltd.
5.78 Broadcom Corporation
5.79 HPE
5.80 VMware Inc.
5.81 MediaTek Inc.
5.82 Juniper Network Inc.
5.83 Analog Devices Inc.
5.84 MACOM Technology
5.85 Motorola
5.86 Ascom
5.87 Harris
5.88 Hytera
5.89 Cobham Wireless
5.90 Leonardo
5.91 Mentura Group
5.92 Inmarsat
5.93 Zenitel
5.94 HTC
5.95 Airspan
5.96 Alvarion
5.97 Sierra Wireless (Accel Networks)
5.98 Coolpad Dyno
5.99 Mobvoi
5.100 Fitbit
5.101 Misfit
5.102 Asus
5.103 Netgear
5.104 Zyxel
5.105 Alibaba
5.106 D-Link
5.107 UbiFi

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5.108 Altair Semiconductor
5.109 SimNet Wireless
5.110 Siretta
5.111 Cradlepoint
5.112 Telit Communications
5.113 Gemalto
5.114 Netcracker
5.115 Texim Europe
5.116 M2M Connectivity
5.117 Eurotech
5.118 RedLinX
5.119 MYCOM OSI
5.120 Colt

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7.0 CONCLUSIONS AND RECOMMENDATIONS

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7.2 Artificial Intelligence Providers
7.3 Automotive Companies
7.4 Broadband Infrastructure Providers
7.5 Communication Service Providers
7.6 Computing and Datacenter Companies
7.7 Data Analytics Providers
7.8 Immersive Technology (AR, VR, and MR) Providers
7.9 Network Equipment Providers
7.10 Network Security Providers
7.11 Semiconductor Companies
7.12 IoT Suppliers and Service Providers
7.13 Software Providers
7.14 Smart City System Integrators
7.15 Automation System Providers
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5G and Beyond 5G Technology, Infrastructure, and Devices

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Industrial Internet of Things: IIoT Market by Technologies, Solutions and Services

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5.1 Advantech
5.2 Aeris
5.3 Allegro Software Development Corporation
5.4 Amplia Soluciones S.L.
5.5 ARM Ltd.
5.6 Bosch Software Innovations GmbH
5.7 Devicepilot
5.8 ETI Software Solutions
5.9 IBM

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5.10 Microsoft
5.11 PTC
5.12 Particle
5.13 Proximetry Inc. (Relayr)
5.14 SiteWhere LLC.
5.15 SmithMicro Software
5.16 Telit
5.17 Tibbo Systems
5.18 Wind River
5.19 WSO2
5.20 Xively (LogMeIn)
5.21 Zentri
5.22 42Gears Mobility Systems Pvt Ltd.
5.23 Blackberry Ltd.
5.24 Cisco Systems
5.25 Citrix Systems
5.26 Huawei Technologies
5.27 JAMF Software
5.28 Matrix42 AG
5.29 MobileIron, Inc.
5.30 Sophos Plc
5.31 SOTI Inc.
5.32 VMware
5.33 Zoho Corporation Pvt. Ltd.
5.34 Orbcomm
5.35 Amazon
5.36 Barbara IoT

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Smart Cities Market: Technologies, Solutions, and Outlook for Applications and Services

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5.0 COMPANY ANALYSIS

5.1 ABB Group
5.2 Accenture

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5.3 Nokia Network
5.4 Cisco Systems Inc.
5.5 Honeywell International Inc.
5.6 IBM Corporation
5.7 Intel Corporation
5.8 Oracle Corporation
5.9 Siemens AG
5.10 Huawei Technologies Ltd.
5.11 Microsoft Corporation
5.12 Schneider Electric SE
5.13 AT&T
5.14 HPE
5.15 Other companies
  5.15.1 General Electric Company
  5.15.2 Cubic Corporation
  5.15.3 CyanConnode
  5.15.4 Ericsson
  5.15.5 Hitachi Vantara
  5.15.6 SAP
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  5.15.9 Google
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  5.15.13 LG CNS
  5.15.14 NEC Corporation
  5.15.15 NTT DATA
  5.15.16 Sierra Wireless
  5.15.17 Telefonica
  5.15.18 Vodafone
  5.15.19 Wipro
  5.15.20 Emerson Electric Co.
  5.15.21 Delta Electronics Inc.
  5.15.22 Delta Controls
  5.15.23 Panasonic
  5.15.24 Dassault Systemes
  5.15.25 Qualcomm Incorporated
  5.15.26 Alstom SA

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5.15.27 Silver Spring Network
5.15.28 AGT International
5.15.29 Itron Inc.
5.15.30 Maven Systems Pvt. Ltd.
5.15.31 Kapsch Group

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