

Motorola Solutions Applied Technology



VIPER 3U-VPX-14



APPLICATION DIVERSE PLATFORM, PROVEN CMOSS SOLUTION

The Viper 3U-VPX-14 supports the U.S. Army's CMOSS initiative as well as SOSA 1.0 alignment and is implemented in the OpenVPX™ 3U form factor. The Viper 3U-VPX-14 is a highly capable and robust software defined radio that can save space in rack mounted systems.

The Viper 3U-VPX-14 provides the technical agility for your personnel to process a variety of radio technologies and frequencies across a number of applications. It is ideal for quick reaction capability in mounted, dismounted, airborne, and fixed site installations.

TARGET ENVIRONMENTS



UNMANNED AERIAL
VEHICLE (UAV)



VEHICULAR



FIXED SITE

COMPATIBLE APPLICATIONS AND TECHNOLOGIES



TACTICAL LTE NETWORK

Stand-alone, high-bandwidth LTE data link



GRAPHICAL RECORD I/Q AND PLAYBACK

USER CUSTOMIZED: 70 MHz - 6 GHz



RAPIDLY DEPLOYABLE BASE STATION

GSM, CDMA2K, UMTS, and LTE-FDD



ARTIFICIAL INTELLIGENCE SURVEY

GSM, CDMA2K, UMTS, and LTE



PUSH TO TALK and CYBER

UHF and VHF



ROCKSLIDE

GSM Bands - 850, 900, 1800, 1900

UMTS Bands - 1-14, 19-22, 25, 26



CUSTOMIZABLE APPLICATIONS

Spectrum Analysis, Signal Identification, Network Survey, Network Monitoring and Signal Copy Available On: PTT, DMR, TETRA, GSM, CDMA2K, UMTS, LTE, WIMAX, Wi-Fi

FEATURES

Developed In Alignment With The SOSA™ Technical Standard

CMOSS Compliance: ANSI/VITA 65 and 67.3

OPEN VPX™ Form Factor

Rugged: MIL-STD-461F and MIL-STD-810G Compliant

Generic Transmission and Reception: 70 MHz - 6 GHz

- Increased data export capabilities with 10 GbE and 40 GbE interfaces

Quickly and Easily Pivot Between Applications and Missions

- Set Up Time: < 5 Minutes
- Switch Application Time: < 2 Minutes

Custom Applications Available

PRODUCT DATA SHEET | VIPER 3U-VPX-14

Commercial-In-Confidence

MOTOROLA SOLUTIONS APPLIED TECHNOLOGY HAS BEEN A PIONEER IN THE FIELD OF COMMUNICATION AND INFORMATION TECHNOLOGY FOR OVER 90 YEARS. THE COMPANY HAS EVOLVED FROM MANUFACTURING RADIOS AND TELECOMMUNICATIONS EQUIPMENT TO BECOMING A LEADER IN ADVANCED COMMUNICATIONS SOLUTIONS, SOFTWARE, AND SERVICES THAT ENHANCE OPERATIONAL EFFICIENCY AND PUBLIC SAFETY. WITH A STRONG EMPHASIS ON INNOVATION, MOTOROLA SOLUTIONS INTEGRATES NEXT-GENERATION TECHNOLOGIES INTO VARIOUS SECTORS, INCLUDING PUBLIC SAFETY, GOVERNMENT, AND ENTERPRISE MARKETS. THIS ARTICLE DELVES INTO THE VARIOUS FACETS OF MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY, ITS IMPACT ON DIFFERENT INDUSTRIES, AND THE FUTURE OF COMMUNICATION SOLUTIONS.

OVERVIEW OF MOTOROLA SOLUTIONS

MOTOROLA SOLUTIONS EMERGED AS A DISTINCT ENTITY FROM MOTOROLA, INC., IN 2011, FOCUSING ON PROVIDING MISSION-CRITICAL COMMUNICATION SOLUTIONS. THE COMPANY HAS ESTABLISHED ITSELF AS A KEY PLAYER IN DEVELOPING TECHNOLOGIES THAT EMPOWER PUBLIC SAFETY ORGANIZATIONS AND ENTERPRISES WORLDWIDE. ITS PRODUCT OFFERINGS RANGE FROM TWO-WAY RADIOS AND SOFTWARE APPLICATIONS TO CLOUD-BASED SOLUTIONS THAT STREAMLINE OPERATIONS AND IMPROVE

RESPONSE TIMES.

KEY AREAS OF FOCUS

MOTOROLA SOLUTIONS FOCUSES ON SEVERAL CORE AREAS THAT DEFINE ITS SERVICE OFFERINGS:

1. **PUBLIC SAFETY COMMUNICATIONS:** PROVIDING ESSENTIAL COMMUNICATION TOOLS FOR POLICE, FIRE, AND EMERGENCY MEDICAL SERVICES TO ENSURE SEAMLESS COORDINATION DURING CRITICAL INCIDENTS.
2. **ENTERPRISE SOLUTIONS:** CATERING TO BUSINESSES BY OFFERING COMMUNICATION TOOLS THAT ENHANCE COLLABORATION, EFFICIENCY, AND OVERALL PRODUCTIVITY.
3. **SOFTWARE APPLICATIONS:** DEVELOPING ADVANCED SOFTWARE SOLUTIONS FOR DATA ANALYTICS, RESOURCE MANAGEMENT, AND SITUATIONAL AWARENESS THAT SUPPORT DECISION-MAKING IN REAL-TIME.
4. **VIDEO SECURITY SOLUTIONS:** INTEGRATING SURVEILLANCE TECHNOLOGY AND ANALYTICS TO BOLSTER SECURITY MEASURES FOR BUSINESSES AND PUBLIC SPACES.

TECHNOLOGICAL INNOVATIONS BY MOTOROLA SOLUTIONS

MOTOROLA SOLUTIONS IS AT THE FOREFRONT OF SEVERAL TECHNOLOGICAL ADVANCEMENTS THAT HAVE REVOLUTIONIZED COMMUNICATION. THE FOLLOWING SECTIONS OUTLINE SOME OF THE MOST SIGNIFICANT INNOVATIONS.

1. PUSH-TO-TALK (PTT) TECHNOLOGY

PUSH-TO-TALK TECHNOLOGY ALLOWS INSTANT COMMUNICATION AT THE PUSH OF A BUTTON, MAKING IT IDEAL FOR TEAMS THAT REQUIRE IMMEDIATE EXCHANGES OF INFORMATION. MOTOROLA SOLUTIONS HAS ENHANCED PTT SERVICES WITH FEATURES SUCH AS:

- **INTEROPERABILITY:** SEAMLESS COMMUNICATION BETWEEN DIFFERENT DEVICES AND NETWORKS.
- **GLOBAL REACH:** PTT SERVICES THAT OPERATE OVER CELLULAR NETWORKS FOR COMMUNICATION ANYWHERE IN THE WORLD.
- **MULTIMEDIA MESSAGING:** THE ABILITY TO SEND TEXTS, IMAGES, AND LOCATION DATA ALONGSIDE VOICE COMMUNICATION.

2. NEXT-GENERATION 911 (NG911)

NG911 IS A SIGNIFICANT ADVANCEMENT IN EMERGENCY RESPONSE SYSTEMS. MOTOROLA SOLUTIONS PLAYS A CRUCIAL ROLE IN THE DEVELOPMENT OF THIS TECHNOLOGY, WHICH INCLUDES:

- **ENHANCED DATA SHARING:** ALLOWS DISPATCHERS TO RECEIVE REAL-TIME INFORMATION FROM CALLERS, INCLUDING TEXTS AND MULTIMEDIA.
- **LOCATION ACCURACY:** IMPROVED GEOLOCATION TECHNOLOGIES THAT ENSURE EMERGENCY SERVICES REACH THE EXACT LOCATION OF THE INCIDENT.
- **INTERCONNECTED SYSTEMS:** INTEGRATION WITH VARIOUS PUBLIC SAFETY AGENCIES FOR A COORDINATED RESPONSE.

3. ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS

MOTOROLA SOLUTIONS LEVERAGES ARTIFICIAL INTELLIGENCE (AI) AND DATA ANALYTICS TO IMPROVE DECISION-MAKING AND OPERATIONAL EFFICIENCY:

- PREDICTIVE ANALYTICS: UTILIZING HISTORICAL DATA TO FORECAST INCIDENTS AND ALLOCATE RESOURCES EFFECTIVELY.
- AI-DRIVEN VIDEO ANALYTICS: ENHANCING SURVEILLANCE SYSTEMS WITH REAL-TIME ANALYSIS TO DETECT SUSPICIOUS BEHAVIOR AND ALERT AUTHORITIES.
- INCIDENT MANAGEMENT SYSTEMS: STREAMLINING THE COORDINATION AND RESPONSE TO INCIDENTS WITH DATA-DRIVEN INSIGHTS.

4. CLOUD-BASED SOLUTIONS

CLOUD COMPUTING HAS TRANSFORMED HOW ORGANIZATIONS MANAGE THEIR COMMUNICATIONS AND DATA. MOTOROLA SOLUTIONS' CLOUD-BASED OFFERINGS INCLUDE:

- SECURE DATA STORAGE: ENSURING THAT CRITICAL DATA IS STORED SECURELY AND IS ACCESSIBLE IN REAL-TIME.
- SCALABILITY: ALLOWING ORGANIZATIONS TO EASILY SCALE THEIR COMMUNICATION NEEDS BASED ON DEMAND.
- COST EFFICIENCY: REDUCING THE NEED FOR ON-PREMISES INFRASTRUCTURE, LOWERING OVERALL OPERATIONAL COSTS.

INDUSTRY APPLICATIONS OF MOTOROLA SOLUTIONS TECHNOLOGY

MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY SERVES VARIOUS INDUSTRIES, EACH BENEFITING FROM TAILORED SOLUTIONS THAT ENHANCE OPERATIONAL CAPABILITIES.

1. PUBLIC SAFETY

THE PUBLIC SAFETY SECTOR RELIES HEAVILY ON EFFECTIVE COMMUNICATION SYSTEMS TO ENSURE THE SAFETY OF COMMUNITIES. KEY APPLICATIONS INCLUDE:

- INTEGRATED COMMUNICATION SYSTEMS: ENABLING POLICE, FIRE, AND EMS TO COMMUNICATE SEAMLESSLY.
- REAL-TIME DATA SHARING: ALLOWING FIRST RESPONDERS TO ACCESS CRITICAL INFORMATION DURING EMERGENCIES.
- TRAINING AND SUPPORT: OFFERING COMPREHENSIVE TRAINING PROGRAMS FOR PERSONNEL TO MAXIMIZE THE USE OF TECHNOLOGY.

2. TRANSPORTATION AND LOGISTICS

IN THE TRANSPORTATION SECTOR, MOTOROLA SOLUTIONS PROVIDES TOOLS THAT STREAMLINE OPERATIONS AND ENHANCE SAFETY:

- FLEET MANAGEMENT SOLUTIONS: UTILIZING GPS AND ANALYTICS TO OPTIMIZE ROUTES AND REDUCE FUEL CONSUMPTION.
- REAL-TIME TRACKING: ENSURING THAT LOGISTICS COMPANIES MAINTAIN VISIBILITY OVER THEIR ASSETS.

3. UTILITIES AND ENERGY

UTILITY COMPANIES BENEFIT FROM MOTOROLA SOLUTIONS' TECHNOLOGY THROUGH:

- FIELD COMMUNICATION TOOLS: ENHANCING COORDINATION AMONG FIELD CREWS FOR MAINTENANCE AND EMERGENCY RESPONSE.
- SMART GRID SOLUTIONS: INTEGRATING ADVANCED COMMUNICATION SYSTEMS TO MONITOR AND MANAGE ENERGY DISTRIBUTION.

4. MANUFACTURING AND INDUSTRIAL

MOTOROLA SOLUTIONS SUPPORTS MANUFACTURING AND INDUSTRIAL SECTORS WITH TECHNOLOGIES THAT IMPROVE PRODUCTIVITY:

- WORKFORCE MANAGEMENT: PROVIDING TOOLS FOR EFFECTIVE COMMUNICATION AND TASK MANAGEMENT AMONG WORKERS.
- SAFETY AND COMPLIANCE SOLUTIONS: ENSURING COMPLIANCE WITH SAFETY REGULATIONS THROUGH EFFECTIVE COMMUNICATION.

FUTURE DIRECTIONS IN APPLIED TECHNOLOGY

AS TECHNOLOGY CONTINUES TO EVOLVE, MOTOROLA SOLUTIONS IS POISED TO LEAD IN SEVERAL EMERGING AREAS:

1. INTERNET OF THINGS (IoT)

THE INTEGRATION OF IoT IN COMMUNICATION SYSTEMS IS EXPECTED TO ENHANCE OPERATIONAL EFFICIENCIES. MOTOROLA SOLUTIONS AIMS TO CREATE INTERCONNECTED DEVICES THAT PROVIDE REAL-TIME DATA FOR BETTER DECISION-MAKING.

2. 5G AND ENHANCED CONNECTIVITY

WITH THE ROLLOUT OF 5G NETWORKS, MOTOROLA SOLUTIONS IS EXPLORING WAYS TO LEVERAGE THIS TECHNOLOGY FOR FASTER AND MORE RELIABLE COMMUNICATION SOLUTIONS, ESPECIALLY IN CRITICAL ENVIRONMENTS.

3. CYBERSECURITY MEASURES

AS THE RELIANCE ON TECHNOLOGY INCREASES, SO DOES THE NEED FOR ROBUST CYBERSECURITY. MOTOROLA SOLUTIONS IS FOCUSING ON ENHANCING ITS SECURITY PROTOCOLS TO PROTECT SENSITIVE DATA AND MAINTAIN THE INTEGRITY OF COMMUNICATION SYSTEMS.

4. SUSTAINABILITY INITIATIVES

MOTOROLA SOLUTIONS IS COMMITTED TO SUSTAINABILITY AND IS EXPLORING ENVIRONMENTALLY FRIENDLY TECHNOLOGIES THAT REDUCE CARBON FOOTPRINTS WHILE ENHANCING OPERATIONAL EFFICIENCIES.

CONCLUSION

MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY HAS SIGNIFICANTLY IMPACTED VARIOUS SECTORS, PARTICULARLY IN ENHANCING COMMUNICATION, SAFETY, AND OPERATIONAL EFFICIENCY. THE COMPANY'S COMMITMENT TO INNOVATION AND DEVELOPMENT OF CUTTING-EDGE SOLUTIONS POSITIONS IT AS A LEADER IN THE TECHNOLOGY LANDSCAPE. AS MOTOROLA SOLUTIONS CONTINUES TO EVOLVE AND ADAPT TO EMERGING TRENDS, IT REMAINS DEDICATED TO PROVIDING ADVANCED COMMUNICATION SOLUTIONS THAT EMPOWER ORGANIZATIONS AND ENHANCE PUBLIC SAFETY WORLDWIDE. WITH ONGOING ADVANCEMENTS IN AI, CLOUD COMPUTING, AND IoT, THE FUTURE OF MOTOROLA SOLUTIONS LOOKS BRIGHT, PROMISING EVEN GREATER INNOVATIONS THAT WILL SHAPE THE FUTURE OF COMMUNICATION TECHNOLOGY.

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE KEY FEATURES OF MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY PRODUCTS?

MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY PRODUCTS FEATURE ADVANCED COMMUNICATION SYSTEMS, INTEGRATED SOFTWARE SOLUTIONS, DATA ANALYTICS CAPABILITIES, AND REAL-TIME MONITORING TO ENHANCE OPERATIONAL EFFICIENCY AND SAFETY.

HOW DOES MOTOROLA SOLUTIONS LEVERAGE AI IN THEIR TECHNOLOGY OFFERINGS?

MOTOROLA SOLUTIONS INCORPORATES AI TO ENHANCE PREDICTIVE ANALYTICS, IMPROVE RESOURCE ALLOCATION, AND AUTOMATE ROUTINE TASKS, THEREBY OPTIMIZING EMERGENCY RESPONSE AND PUBLIC SAFETY OPERATIONS.

WHAT INDUSTRIES BENEFIT FROM MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY?

INDUSTRIES SUCH AS PUBLIC SAFETY, TRANSPORTATION, UTILITIES, AND MANUFACTURING BENEFIT FROM MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY THROUGH ENHANCED COMMUNICATION, OPERATIONAL EFFICIENCY, AND SAFETY MANAGEMENT.

WHAT ROLE DOES DATA ANALYTICS PLAY IN MOTOROLA SOLUTIONS' OFFERINGS?

DATA ANALYTICS IN MOTOROLA SOLUTIONS' OFFERINGS HELPS ORGANIZATIONS MAKE INFORMED DECISIONS BY PROVIDING INSIGHTS INTO OPERATIONAL PERFORMANCE, INCIDENT TRENDS, AND RESOURCE UTILIZATION.

CAN MOTOROLA SOLUTIONS' TECHNOLOGY BE INTEGRATED WITH EXISTING SYSTEMS?

YES, MOTOROLA SOLUTIONS' APPLIED TECHNOLOGY IS DESIGNED TO BE INTEROPERABLE, ALLOWING INTEGRATION WITH EXISTING SYSTEMS AND ENHANCING FUNCTIONALITY WITHOUT REQUIRING A COMPLETE OVERHAUL.

WHAT IS THE IMPORTANCE OF REAL-TIME COMMUNICATION IN MOTOROLA SOLUTIONS' TECHNOLOGY?

REAL-TIME COMMUNICATION IS CRUCIAL IN MOTOROLA SOLUTIONS' TECHNOLOGY AS IT ENABLES SWIFT DECISION-MAKING AND COORDINATION AMONG TEAMS, ESPECIALLY DURING EMERGENCIES AND CRITICAL OPERATIONS.

HOW DOES MOTOROLA SOLUTIONS ADDRESS CYBERSECURITY IN THEIR APPLIED TECHNOLOGY?

MOTOROLA SOLUTIONS IMPLEMENTS ROBUST CYBERSECURITY MEASURES, INCLUDING ENCRYPTION, SECURE ACCESS CONTROLS, AND REGULAR UPDATES TO PROTECT SENSITIVE DATA AND ENSURE THE INTEGRITY OF THEIR SYSTEMS.

WHAT ARE THE BENEFITS OF USING MOTOROLA SOLUTIONS' CLOUD-BASED SERVICES?

MOTOROLA SOLUTIONS' CLOUD-BASED SERVICES OFFER SCALABILITY, FLEXIBILITY, AND REMOTE ACCESS TO CRITICAL DATA, ENABLING ORGANIZATIONS TO STREAMLINE OPERATIONS AND ENHANCE COLLABORATION ACROSS TEAMS.

HOW DOES MOTOROLA SOLUTIONS SUPPORT PUBLIC SAFETY AGENCIES WITH ITS TECHNOLOGY?

MOTOROLA SOLUTIONS SUPPORTS PUBLIC SAFETY AGENCIES BY PROVIDING RELIABLE COMMUNICATION TOOLS, INCIDENT MANAGEMENT SYSTEMS, AND ANALYTICS SOLUTIONS THAT IMPROVE RESPONSE TIMES AND SITUATIONAL AWARENESS.

WHAT INNOVATIONS HAS MOTOROLA SOLUTIONS INTRODUCED RECENTLY IN APPLIED

TECHNOLOGY?

RECENTLY, MOTOROLA SOLUTIONS HAS INTRODUCED INNOVATIONS SUCH AS ADVANCED BODY-WORN CAMERAS, AI-DRIVEN ANALYTICS SOFTWARE, AND INTEGRATED COMMAND CENTER SOLUTIONS THAT ENHANCE SITUATIONAL AWARENESS AND OPERATIONAL EFFICIENCY.

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