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Hall County Fire & Emergency Services

**DATE: October 31, 2019; revised September 28, 2020**

**TO: All Fire Marshal's Office Personnel and Contractors**

**FROM: Division Chief Bryan Cash, Fire Marshal**

**SUBJECT: 2012 International Fire Code (IFC) Section 510 Requirements for New Construction**

HALL COUNTY FIRE MARSHAL'S OFFICE  
APPROVED  
CHIEF BRYAN CASH

The Fire Marshal's Office (FMO) will no longer issue temporary or permanent Certificates of Occupancy for any building permitted after November 1, 2016, due to the requirements of IFC 510, Emergency Responder Radio Coverage (ERRC), not being met. Any emergency responder radio coverage required by IFC 510 must be installed, tested, and operational prior to the issuance of a Fire Safety Codes release or Certificate of Occupancy. Building owners and designers must take the necessary steps for the testing, design, and installation of any required emergency responder radio system prior to the issuance of a temporary or permanent Certificate of Occupancy.

**Application:** All new (proposed) construction and any substantial renovation(s) to existing buildings as defined in OCGA 25-2-14 (O) (d) approved after January 30, 2014. Existing buildings as required by IFC 1103.2 when ordered by the Fire Marshal. Wired systems as identified in IFC 510.1 exception 1 will not be accepted in lieu of an ERRC.

Exceptions: (As permitted by IFC 510.1 (2))

The following structures are not required to comply with the requirements of IFC Section 510.

1. Buildings with no more than two occupiable stories, no more than 12,000 total square feet, and no floors below grade.
2. Temporary buildings including tents when permitted by the fire marshal.

For additions to buildings, unless the exceptions above are met for the area of the addition, the entire building being expanded must meet IFC 510 requirements.

#### **Testing—Needs Assessment**

- 1) Effective May 1, 2017, initial signal strength testing must be completed prior to the approval of site plans for new buildings and building additions.
- 2) Field testing for signal strength certification will not be conducted prior to the building envelope being complete and all doors, windows and exterior openings closed. In buildings with significant internal signal impairments like rack storage of metal parts, interior room enclosures that contain wire mesh security screens, or other interior or exterior features, etc.; all internal construction must be complete prior to final testing for signal strength.
- 3) Testing will be performed in accordance with IFC 510 using the 20 test cell (per floor) criteria for initial testing. For floors 32,000 sq ft or more, each floor of the building shall be divided into grids of approximately 40 ft by 40 ft.
- 4) All critical areas as defined in NFPA 72 chapter 24.5.2.2.1 shall be tested individually and shall not be counted towards the 20 test cell count.
- 5) Testing results will be certificate by the testing contractor and forwarded to the FMO. A copy shall be left on site with the approved plans.
- 6) Authorization to operate on frequencies licensed to Hall County must be obtained from the Radio System Manager. NOTE: FCC Part 90.219 (b)(1)(i)—Non-licensees seeking to operate signal boosters must obtain the express consent of the licensee(s) (Hall County DPS/800 MHz) of the frequencies for which the device or system is intended to amplify. The consent must be

maintained in a recordable format that can be presented to an FCC representative or other relevant licensee investigating interference. Consent may be withdrawn by Hall County for any reason with notice to the property owner.

**Design Considerations**—All proposed ERRC system shall be designed in accordance with IFC section 510, good engineering practices and applicable regulations of the Federal Communications Commission.

Plans must be reviewed and approved by the FMO prior to installation or modification of an ERRC system. Schedule a plan review appointment by going to CobbFire.org, Fire Marshal, Plan Review. After plan approval by the FMO, appropriate permits must be obtained through the applicable building department.

Permits will be issued based on a review of engineering plans. A design professional seal is not required.

Plans shall detail the following:

- 1) Site map showing location of target building and closest donor site antenna
- 2) Statement of work and scope of work describing the system design
- 3) Location(s) of all head end equipment and radio transmitters (BDA's)
- 4) Locations of all "critical areas" as defined in NFPA 72, 24.5.2.2.1 with anticipated signal levels (-95dBm required)
- 5) Single line schematic drawing of antenna lines and data lines
- 6) Type and location of NEMA 4 enclosures
- 7) Battery calculations to show 24 hours capacity at 100% transmit duty cycle
- 8) Floor plan showing distributed antenna system (DAS) antennas and the anticipated signal level in each test grid square, see number 4 above also
- 9) System component specification documents including coax cable(s) and data or fiber optic components, all transmitters shall be FCC Type Accepted, provide documentation
- 10) System monitoring shall include:
  - a. Monitoring equipment and identification of monitoring station.
  - b. Malfunction of the BDA Loss of primary power or related electronic systems
  - c. Antennas and passive filters are exempt from monitoring
  - d. Fire alarm installing contractor if system is to be monitored by FACP
- 11) Detailed acceptance procedures including all provisions of IFC 510.5.3—talk in and talk out signal levels must be included for each zone and critical area.
- 12) Location of document box—shall be co-located with head end equipment
  - a. Documents to be included in the document box include
    - i. System design diagrams
    - ii. Acceptance testing documents
    - iii. Identity of persons/company installing the system
    - iv. Identification of the system monitoring company with phone contact numbers
    - v. Test results for the preceding three years of annual test and inspection, refer to 510.6.1
    - vi. FCC 90.219—FCC Letter of consent from Hall County
- 13) Dual use antenna systems (Permitted on a case by case review basis)
  - a. Show the schematic layout of the head end equipment and the interconnect filtering that will prevent co-system interference.
  - b. Filters must be enclosed in a locked NEMA 4 cabinet
  - c. Cellular system components that cannot create interference with the public safety radio system do not need to be enclosed in NEMA rated cabinets.

**Technical Information**—All technical information for the Hall County Communications system is available on the FCC website, refer to Hall County FCC License WQFD346. Additional technical information may be obtained by contacting Hall County Communications Manager at 770-531-6772.

**Acceptance Testing and Commissioning**—Systems must be inspected by personnel from the FMO or approved third party inspection services. Acceptance criteria shall be specified in the plan submittal documents and shall clearly demonstrate the ability of the system to perform in the event of an emergency. The testing shall be conducted both on primary and secondary power sources. A certificate of commissioning shall be completed by an approved contractor and signed by the building owner's representative. An operations and maintenance manual shall be provided to the building owner as part of the commissioning. Refer to IFC 510.5.3 for additional details.

**Maintenance**—All system and components shall be tested annually in accordance with IFC 510.6. A system test and inspection report shall be maintained on site for inspection by the fire marshal's office. A tag shall be placed on the head end cabinet indicating the date of the last test and the results of the test. All test reports shall be submitted to the FMO in an expeditious manner. Any system that fails annual testing should be reported to the FMO within 48 hours of testing. Should a system fail to provide adequate signal, cause interference, or fail to perform as originally installed, the Fire Marshal is authorized to order the testing of the system and repair to original installation standards or the current adopted edition of the standard. The Fire Marshal is authorized to order that cellular signal boosting systems that interfere with the public safety radio system be tested or disconnected pending testing in order to eliminate interference.

*NOTE: Requirements listed above are not necessarily all inclusive, but are intended as a guide.*

## **Project Description**

International Fire Code 510 Emergency Responder Radio Coverage (ERRC) Building Coverage Testing will analyze and test installed ERRCs for compliance with IFC510 standards for providing in- building communications coverage for Hall County's DPS radio communication system. Approved Contractor(s) will evaluate the building design and the designed ERRC; the required secondary power systems and any components connected to the in-building amplifier system; and will analyze the in- building coverage with a Certified spectrum analyzer, and with a Certified portable radio from Hall County's 7/800 MHz Department.

In-building coverage testing for signal strength will not be conducted prior to the building envelope being complete and all doors, windows and exterior openings closed. In buildings with significant internal signal impairments like rack storage of metal parts, interior room enclosures that contain wire mesh security screens, or other interior or exterior features, etc.; all internal construction must be complete prior to final testing for signal strength.

## **Scope of Work/General Requirements**

### **Contractor Shall:**

- A. Be licensed to conduct business in Hall County.
- B. Professional Liability (Errors and Omissions) Coverage: \$1,000,000
- C. Is a Service Specialist recognized by an Industry Association or Manufacture
- D. Have five (5) plus years of experience in providing in-building communications coverage of Motorola Project 25 Phase 1 & 2 radio systems.
- E. Have personnel certified as a Motorola Elite Specialist, providing all necessary documentation and certifications for those individuals who will be intimately involved in the analyzing and testing of ERRCs.
- F. Have trained technicians who are trained on the industry standard equipment (hardware and software) for in-building coverage design of ERRCs (like iBwave), grid designing, Project 25 radio systems, 7/800 MHz frequency propagation, spectrum analyzer equipment, in building amplifier systems, and the ability to read, understand, and utilize building design documents.
- G. Utilize a spectrum analyzer that is regularly calibrated (documentation required), which supports Project 25 public safety communications, and receives signals in the 7/800 MHz public safety spectrum.
- H. Coordinate "in-bound" radio system coverage testing with Hall County's radio system maintenance service provider, and Hall County's 7/800 MHz Systems Manager.
  - a. "In-bound" coverage testing requires a dedicated portable radio operating on Hall County's public safety radio system, a dedicated console, and a console operator with authorized access to Hall County's public safety radio system network and repeater components for reporting the "in-bound" signal to the evaluation field team.
- I. Check out, use, and return a Hall County 7/800 MHz portable radio used for "in-bound" radio system coverage testing

- J. Conduct ERRC analysis and testing only during approved days and hours, which are subject to change based on known events or unexpected events, inclement weather or other unforeseen disasters.
- K. All critical areas as defined in NFPA 72 shall be analyzed and tested for coverage and shall be covered with a minimum of -95dBm anticipated signal in each critical area.
- L. Certification or failure shall be submitted to the Hall County Fire Marshal's office and shall include a complete catalog of all tests and signal levels achieved after installation of the ERRC. Once certified, a copy of the certification letter and additional copies of tests and signal level documentation shall also be left with the building owner and kept on site in a document box located at the in-building amplifier cabinet.

**Hall County Shall:**

- A. Based on the criteria indicated below, establish the List using contractors that are capable of meeting the requirements of this RFQ.
- B. Not make any guarantees regarding the number of calls or amount of work any Contractor included on the List may receive. The County reserves the right to use the particular contractor best suited for the job as determined by the County in its sole discretion.
- C. Have no direct contractual relationship with any property owner, engineering, or construction contractor, and shall be a third party to contractor's relationship with property owners, engineering, or construction contractors.
- D. Provide Contractor with a Hall County portable radio for temporary use and used for "in- bound" radio system coverage testing. The radio will be calibrated monthly for optimal performance.

**Contract Term**

The term of the contract shall be for a period of two (2) years from date of award and contract execution.

**Proposal Format/Content**

To standardize responses and simplify the comparison and evaluation of responses, all proposals must be organized in the manner set forth below, separated into sections, and appropriately titled.

1. Company Background

Provide information on company background to include the following:

- Firm local name, address, and telephone
- Contact person, phone number, and e-mail address
- Total number of firm's full time employees
- Number of years in business

- Listing, description, and outcome of all litigation involving the proposer during the last five (5) years.

## 2. Experience

- Provide information on experience relative to providing similar services, with emphasis on local experience.
- Provide a minimum of three (3) references for services provided by your firm for similar contracting arrangements or for individual projects. Provide customer name, project description, dates of service, contact person, current phone number, and email address.

## 3. Staffing

- Provide a brief resume of key staff members that will be involved in providing services to the County under this solicitation. Resumes shall include qualifications, experience, professional certifications required by this RFQ, and recent experience on projects of similar scope and complexity.

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Hall County Fire & Emergency Services

## **Qualified Contractors for IFC 510 and Emergency Responder Radio Coverage Testing**

No recommendation is given or implied by the Hall County Fire Marshal's Office.

Initial needs testing and final commissioning testing must be performed by an approved contractor. (See list below) Final acceptance inspections are completed by Hall FMO personnel.

Plans must be reviewed and approved by the FMO prior to installation of or modification to an IFC 510/ERRC system. After plan approval by the FMO, appropriate permits must be obtained through the applicable building department. Only firms with persons holding a FCC "General Radio Operators" can be issued a permit **and** installation must be supervised by the licensed technicians.

Primary Contact: Joe Banas  
Secondary Contact: Tom Priddy  
**Mobile Communications America, Inc.**  
526 Oak Street  
Gainesville, GA 30501  
Office: (770) 536-2066  
Email: [ERRCtesting@callmc.com](mailto:ERRCtesting@callmc.com)

Primary Contact: Deidra Winfrey (Project Coordinator)  
Secondary Contact: Jeff Golden (Director of System Integration)  
**Diversified Electronics, Inc.**  
1290 Field Parkway  
Marietta, GA 30066  
Office: (770) 427-8181  
Fax: (770) 427-3069  
Email: [IFC\\_Testing@deirr.com](mailto:IFC_Testing@deirr.com)

# Hall County ERRCS Testing Checklist

**Customer Name:** \_\_\_\_\_

**Date of Testing:** \_\_\_\_\_

	<b>Result (pass/fail, dB level, etc.)</b>
<b>System Evaluation</b>	
Approved Plan Review Documentation Onsite	
Verify Donor Location per Plan Review	
Verify Donor Direction per Plan Review	
Verify Donor Antenna Manufacturer, Model, and Frequency per Plan Review	
Verify Polyphaser frequency and grounding	
Verify Donor coax type per plan review	
Donor Signal Level (Capture via Spectrum Analyzer on 851.1750 for Hall County)	
<b>System Isolation Testing</b>	
Verify Battery Backup Manufacturer, Model, Amp Hours per Plan Review	
Verify Battery Backup Fire Alarm hook up per Plan Review: Loss of AC Power (verify operation)	
Verify BDA Manufacturer, Model, Frequency, Class A or B, and NEMA rating per Plan Review * Hall County requires Class A	
Verify BDA Fire Alarm hook up per Plan Review: Loss of AC/DC and BDA failure	
Verify DAS coax type per plan review	
Verify DAS Antenna Manufacturer, Model, and Frequency per Plan Review	
Verify DAS Antenna locations per Plan Review	
<b>IFC 510 Testing</b>	<b>Result (pass/fail, dB level, etc.)</b>
Verify Control Channel frequency to be used: 851.1750 for Hall County	
Baseline Outdoor Uplink/Downlink Signal measurements (document 1-2 locations for recertification)	
Baseline Indoor Uplink/Downlink Signal measurements (document 1-2 locations for recertification)	
Measure Noise Floor level for Uplink (Should be around -120dB)	
Start IFC Certification Testing procedures per Plan Review grids	
Test and Verify Critical Area coverage per Plan Review	
* Hall County Requires Class A Only	



Fire Marshal's Office



Plan Review

**Emergency Communications System(s) (RADIO)**

Job Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Bldgs.1 \_\_\_\_\_ Suite: \_\_\_\_\_  
 City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Responsible Party: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**GENERAL BUILDING INFORMATION:**

Area of Building: \_\_\_\_\_ Number of Stories \_\_\_\_\_  
 Occupancy Type: \_\_\_\_\_  
 Radio System Type BDA Y N DAS Y N Radiating Cable Y N  
 Installing Contractor \_\_\_\_\_  
 Number of BDA's \_\_\_\_\_ Number of DAS antennas \_\_\_\_\_  
**Class:** \_\_\_\_\_ **BDA Donor Site:** \_\_\_\_\_ **Azimuth:** \_\_\_\_\_  
 Location of head end \_\_\_\_\_

./ = Pass, X = Fail, NA = Not applicable Status

**DRAWING SUBMITTAL REQUIREMENTS**

1) Plans shall be clearly labeled and legible.	
2) Plans shall include a single line wiring diagram including cable type.	
3) Plans shall include a title sheet with full specifications and system operational description.	
4) Manufacturers specifications and cut sheets shall be included with plans.	
5) Plans shall include a vicinity map which includes The AHJ system towers and building latitude and longitude.	
6) Plans shall include details of system supervision and central station monitoring per IFC 510.4.2.4(3). Monitoring by the FACP is the preferred method. Signals shall be supervisory.	
7) Plans shall show a grid pattern for each level, not less than 20 grids per floor. Floors greater than 32,000 sf shall utilize a maximum 40-ft x 40-ft grid.	
8) Floor plans for each level (basement included) must show anticipated signal levels in each grid.	
9) Plans shall indicate the location of all system components.	
10) Plans shall identify critical areas as defined in NFPA 72, 24.5.2.2.1	
11) Location and anticipated talk-in signal level at the closest AHJ tower site (-95dBm required)	
12) All critical areas -as defined in NFPA 72- SHALL BE COVERED WITH A MINIMUM OF -95dBm, show anticipated signal coverage in each area for talk-in and talk-out.	
13) Shall be capable of transmitting all The AHJ 7/800 MHz frequencies and modulation	
14) All system electronics shall be enclosed in NEMA 4 cabinet, batteries must be separate or utilize a sound engineered design. Separate battery cabinets -when using sealed batteries- are not required to be NEMA 4 compliant.	
15) Two independent power supplies shall be provided; secondary supply must provide a 24-hr supply at 100% of maximum current draw (show calculations). When using an NFPA 110 emergency generator a minimum of 8-hours run-time is required.	
16) Dedicated monitoring panel provided in fire command center (If there is a command center)	
17) Annual testing is required per IFC 510. All submissions shall include a proposal between the owner and an approved testing agency for annual testing, inspection and re-certification. Building owners must acknowledge the necessity of annual testing by means of a written statement scanned onto the plan set.	
18) System acceptance and testing criteria shall be provided for review and approval.	
19) System certification plan shall be provided and shall include a complete catalog of all tests and signal levels to be documented after installation.(Quote from Certified Testing Vendors Only)	
20) Complete system acceptance testing documentation shall be kept on site in a document box located at the BDA cabinet.	
21) Adequate means to protect all fire rated penetrations shall be detailed in the plan set	
22) All cables shall be documented to be rated for their respective use, plenum, riser etc.	
23) ERRC Designs shall bear both a FCC General Radio License and Low Voltage License credentials and signatures. Original signatures are required on the cover page of all plan sets.	
24) Provide the FCC General Radio License for the lead installation technician. All ERRC Installations require a Low-Voltage Permit through the applicable permit office.	

**Fire Marshal's Office**



**CERTIFICATION OF INSTALLATION**

**Emergency Communications System(s) (RADIO)**

Job Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Bldgs. \_\_\_\_\_ Suite: \_\_\_\_\_  
City: \_\_\_\_\_ Zip: \_\_\_\_\_  
Responsible Party: \_\_\_\_\_ Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

**GENERAL BUILDING INFORMATION:**

Area of Building: \_\_\_\_\_ Number of Stories \_\_\_\_\_  
Occupancy Type: \_\_\_\_\_  
Radio System Type BDA  N  DAS  N  Radiating Cable  N   
Installing Contractor \_\_\_\_\_  
Number of BDA's \_\_\_\_\_ Number of DAS antennas \_\_\_\_\_  
Location of head end \_\_\_\_\_  
Permit number: \_\_\_\_\_

The above referenced project included the installation of a radio communications system designed to provide public safety radio signal coverage as detailed in the submitted plans.

This letter shall CERTIFY that the above captioned system was installed in accordance with the approved plans and meets all the performance requirements of the International Fire Code as adopted by the State of Georgia and Hall County.

Attached to this certification is a copy of the signal level measurements that were completed as part of the final acceptance testing. Note that all critical areas as defined in NFPA 72 SHALL BE COVERED WITH A MINIMUM OF -95dBm.

As an authorized representative of \_\_\_\_\_  
I certify that the referenced public safety radio communication system was installed in accordance with the approved plans, specifications and Federal Communications Commission Rules and Regulations. I further certify that the system will not create harmful or annoying interference to the Hall County Public Safety Radio system or its users.

Sign \_\_\_\_\_ Print \_\_\_\_\_

Position \_\_\_\_\_ Date \_\_\_\_\_

**OWNERS ACKNOWLEDGEMENT:**

I, \_\_\_\_\_ as an authorized representative of the property owner acknowledge that annual maintenance and re-certification of the Emergency Radio Communication System is required by the International Fire Code as adopted by the State of Georgia. I further acknowledge that the installed system will be maintained in an operational condition and will not cause interference to any public safety communications system(s).

Signature \_\_\_\_\_ Date \_\_\_\_\_



Mobile Communications America, Inc. (MCA) has been in business serving Metro Atlanta since 1988. Mobile Communications, Inc. was founded in 1988 in Lawrenceville, GA. Now with over 60 locations across 10 states and 800 plus employees, MCA is the largest and most trusted Motorola Channel Partner in the United States offering world-class voice, data, and video solutions that enhance the quality, safety, and productivity of customers' operations and lives. As solution providers of wireless communication technologies, MCA leverages a portfolio of products and experienced engineers, analyzes customer needs, designs and optimizes the best solution, deploying it on time and on budget, while ensuring it performs as specified. MCA provides an unmatched footprint of trusted technical staff that will be there from install through the life-cycle of the solution. MCA is committed to a personal level of service and support.

As a Motorola Solutions Service Elite Specialist, the top service level with Motorola Solutions, MCA is trusted to handle the needs of our customers.

MCA has over 400 technical employees with certifications in Motorola LMR (P25 Installer and Technical Professionals, Networking Professionals, and Project Management/Engineering Professionals) as well the systems they integrate into (911 Call taking, Dispatch, Mass Notification, Video Surveillance, Logging Recorders, BDA/DAS, etc.). This has allowed us to provide many turn-key Public Safety BDA Systems throughout our footprint. From design, plan review, installation, optimization, and testing our team can handle any situation.

MCA has three locations within 40 miles of Hall County. Within these three locations we are staffed with 30 technicians which include 17 Field Technicians, 4 Bench Technicians, and 9 Installation Technicians who all are versed in Public Safety radio systems. 4 of those technicians hold a FCC General Radiotelephone Operator License (GROL) which is listed as minimum qualification in the IFC 510 code. MCA also has 2 technicians within the state who hold a Low Voltage certification. Each location has a local Service Manager to handle day to day activities including scheduling, logistics,



training, etc providing you more access to service & support than any other Motorola Channel Partner. MCA also has an engineering team in Longent which has cellular and public safety DAS engineers and project managers. These engineers have designed, installed, optimized, and maintain DAS systems throughout the United States.



## 1. Company Background

- **Diversified Electronics, Inc.**  
1290 Field Parkway  
Marietta, Georgia 30066  
(770) 427-8181  
Fax (770) 427-3069
- Joel Brotman -Regional Service Manager  
[Joel.brotman@deirr.com](mailto:Joel.brotman@deirr.com)  
Cell-770-861-6677
- Total Fulltime Employees -85
- Total Years In Business -44 years
- No Litigation in the last 5 Years

**Diversified Electronics, Inc.** has been a Motorola Service Partner since 1973 and handles the installation and service for many large Motorola Radio Communication Systems throughout the Southeastern United States.

A company named Electronic Renovators began as a Motorola reconditioning center in 1966. As a re-conditioning center, they contracted with Motorola to refurbish and repair two-way radios. Diversified Electronics began as a test equipment repair facility in 1968. Diversified Electronics & Electronic Renovators merged in the late seventies and became what is now Diversified Electronics, Inc.

John Thornton, now CEO of Diversified Electronics, left Motorola in 1971 and became an employee of Electronic Renovators. As part of Mr. Thornton's role as Southeastern & Southwestern area parts manager for Motorola he had the experience to build the business contracting with several large, self-maintained end users for parts sales. Now, this is only one of the fast growing divisions of Diversified Electronics.

In the mid 1970's, Diversified Electronics was approached by a NASCAR driver for assistance in solving his racing radio communications problems. After receiving permission from Motorola to buy equipment and resell as part of a racing communications package, they began to manufacture accessories for two-way radios using Motorola equipment. These racing packages were designed to enhance the quality of racing communications. In 1979 Racing Radios® was formed as a separate division of Diversified Electronics. Today we service drivers of NASCAR Sprint Cup Series, NASCAR Xfinity Series, NASCAR Camping World Truck Series, IMSA, NHRA, IHRA, IRL, USAC and have become the leading innovator and supplier of two-way communications involving motorsports.



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John Thornton continued to watch for opportunities to grow his business and in 1988 he moved quickly to position himself as one of the first companies to sell the Radius product line. In the past, Motorola had only manufactured and sold a Motorola branded product line. In an attempt to target smaller commercial markets, the Radius line was developed and allowed to be sold by dealers instead of directly by Motorola. As with every division of the company, Radius sales grew rapidly.

In 1991, Diversified Electronics became a full line Motorola dealer, selling two-way radios, pagers, and replacement parts. We work closely with all companies needing wireless communications. Every year since 1992, Diversified Electronics has been a proud member of the Motorola Empower Circle, which recognizes the top dealers in the United States.

With facilities in Georgia and South Carolina, Diversified Electronics - a top dealer for Motorola equipment and services - provides sales, engineering, project management, technical services and support for your portable, mobile, and fixed communications system needs. We serve North Georgia, the Upstate of South Carolina, as well as, the southeastern United States.

We offer cutting-edge communications technology and services such as Trunking, Data, Consoles, Wireless Broadband and more. Our engineers and system design team can help you build a communications strategy that meets your current needs - and one that grows with your needs. Our pledge to providing service after the sale includes maintaining a full line of parts and accessories as well as continuing to research and offer the best in voice and data communication.