DEV Systemtechnik GmbH & Co. KG

By Jörg Schmidt, Managing Director

The quality of RF signal transmission within satellite communications and broadcast applications is one of the key ingredients to delivering uninterrupted service, with no single point of failure.

Successful conception and implementation depend on the know-how of the system integrator and the technical capabilities of the RF transmission solutions provider. Last, but not least, this always depends upon the quality of collaboration between the two, said Jörg Schmidt, Managing Director of DEV Systemtechnik GmbH & Co. KG.

At DEV Systemtechnik, a Quintech Company, 2015 has been a time to continue preparing for technological advances and industry changes as well as a time for extending the company's global reach and reputation in the RF transmission sector: "*From Dish to Rack and Back.*" The company has invested in targeted offerings for RF-over-Fiber and RF-over-Coax to meet the needs of broadcast, cable and satellite customers alike.

Customers demand superior and high quality products and also expect professional advice in serving their individual needs as well as expert advice and experience when addressing their technical and business challenges. The work of DEV's skilled and experienced team, combined with a thorough knowledge base in these domains (SATCOM, telecommunications and RF signal handling) is an asset the firm has been able to bring to the front-line with customers in order to maximize their satisfaction of provided services and product. This is why customers that rely on DEV solutions include some of the world's most demanding systems integrators, communications providers and broadcasters. Many new products and solutions have been launched during the last 12 months and DEV will continue to do so throughout 2016.

During 2015, the joint Quintech/DEV Matrix Concept "*Expansion by Reduction*" has gained industry wide acceptance. In today's environment, organizations continue to face ever-increasing demands for bandwidth, content distribution and data processing. Convergence of all forms of content delivery is at our doorstep. Most facilities are feeling the pressure to manage operating expenses, demanding increased energy efficiency and decreased RU footprint. This has never been more important. Next Generation RF Matrix Switches, such as DEV's ARCHIMEDES or Quintech's XTREME 256, offer an exciting opportunity for the satellite industry to refresh legacy L-band matrices and greatly increase operational capabilities, all the while vastly reducing power requirements, cabling and rack unit footprints.

ARCHIMEDES—Stronger, Smaller, Smarter

ARCHIMEDES was launched at the IBC 2014 and is the benchmark in performance, size and price. ARCHIMEDES is stronger than all other RF Matrices regarding the RF performance and is smaller, providing 64 x 64 connections in 4 RU. The product is smarter, with many unique features and redundancy options. The features of the L-Band Distributing Matrix ARCHIMEDES (DEV 1986) give customers the best flexibility and reliability available. The concept of the Matrix is an all-in-one design that makes operations in cable, satellite, and broadcast facilities as efficient as possible.

The sales of the L-Band Matrix Switch ARCHIMEDES in 2015 topped our internal expectations by far. Many leading broadcasters selected the DEV solution to upgrade their teleport or IPTV facilities in Africa, in Russia, in the Middle East and Central Europe. Similar success with the 8² Matrix could well be experienced during 2016.

The 8² Distributing Matrix ("Eight Squared")

At IBC 2015, DEV introduced the 8² Distributing Matrix. With this launch, Quintech/DEV's Matrix product family now offers a full range of next generation RF matrix switches, all designed to meet a variety of operator's needs, from the small to the extremely large projects. For small configuration environments, such as SNG vehicles, the compact 8² Distributing Matrix offers an ideal mix of cost and performance as well as unique advantages such as optical inputs, unique redundancy options, LNB powering, full color display user interface, and dual redundant field replaceable power supplies. For new ground facility and green-field builds, for example, to serve High Throughput Satellite (HTS), where requirements can exist to switch between multiple RF paths, these new RF matrices also provide the greatest efficiency.

Redundancy Pays For Itself

If your mission critical RF Transmission System fails, severe consequences and higher costs can result. Therefore, redundancy, which ensures that your RF Transmission System operates without interruption, clearly pays for itself. In response to market demand, the company launched a new Universal Switch DEV 1953 in the autumn of 2015, thereby extending DEV's Redundancy Switch product line. The DEV 1953 offers broadcasters a higher capacity solution designed to make network resiliency and redundancy easier than ever for larger network applications. DEV's Redundancy Switch Solutions eliminate single points of failure and enable the highest uptime for customer networks. The flexible solution is available as a 16 Slot version for large RF transmission applications and as a 2 Slot version designed for small RF transmission applications.

Optical Systems Provide The Required Signal Quality + Reliability

What differentiates DEV and Quintech from other solution providers is that we have these products and incorporate additional features into the offerings, which provide customers with unique and highly flexible solutions.

DEV's RF-over-Fiber saves rack space and also greatly reduces the risk of signal loss, while providing "*5 Nines*" reliability. The customer also saves money through lower operational, maintenance and purchasing costs. OPTRIBUTION® is very much a "green" solution and is ideal for Ka-band Site Diversity applications that require high network uptime. With a Ka-band Site Diversity configuration, the signal transmission is redirected from the main site to a diverse site in the case of adverse weather conditions. Site diversity configurations can employ DWDM RF-over-Fiber transmission systems and redundancy switching units as well as provide excellent methods to ensure maximum Ka-band system reliability and availability, in spite of any high level of rain attenuation.

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