

ARCHIMEDES RF Matrix Switch



**COMPLEX SOLUTIONS
BECOME MORE TRANSPARENT**

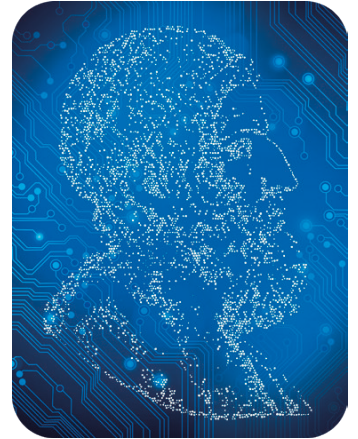
The Benchmark in Performance, Size and Price

THE ART OF ENGINEERING

Density meets Versatility

The RF Distributing Matrix ARCHIMEDES is built in a high density 4 RU chassis. Its high degree of reliability constitutes the core of your system. Available in sizes starting at 16x32, it can be easily expanded up to 64x64 by increments of 8 inputs or outputs still being in 4 Rack Units. ARCHIMEDES can be configured as a combining matrix up to a size of 16x16 as well. It is also possible to assemble a distributing matrix and a combining matrix in one chassis.

The Matrix provides a maximum versatility in a minimum size with optional features for various customer applications. Redundancy options for in- and output channels as well as for the controller give you as much reliability as you can get. With the LNB Power Option ARCHIMEDES is capable of powering LNBS through **all** input channels. It is also possible to cluster several ARCHIMEDES matrices, up to a size of 2048x2048.



Your Choice of Features

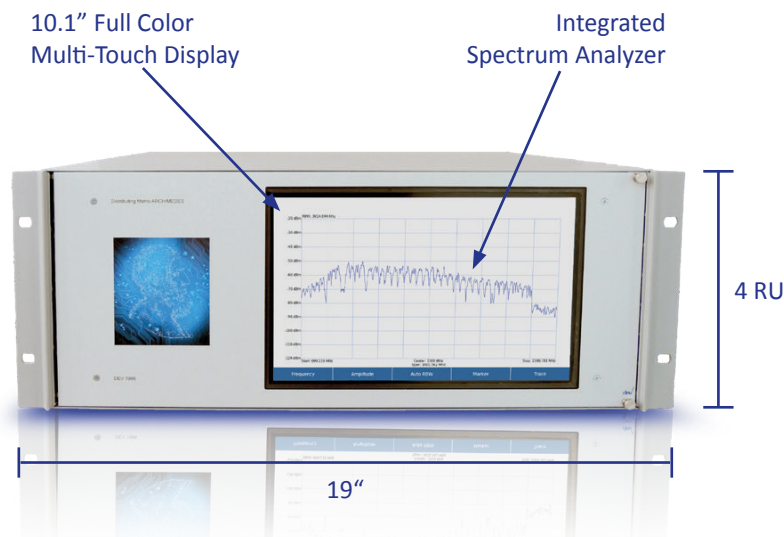
- Size starts at 16x32 and can be extended in increments of 8, up to 64x64 in 4 RU
- Centrally manageable ARCHIMEDES clusters – up to 2048x2048 – are available
- Various Input/Output Modules in 75 Ohm, F (f) or BNC (f), or in 50 Ohm, SMA (f) or optical LC/APC
- LNB powering through all input channels, 13/18 V, with or without Tone
- TV reception via an integrated TV Receiver
- Manageable by an integrated full color multi-touch display or remotely via DEV Web Interface or SNMP
- Spectrum analysis locally or remotely by a built-in spectrum analyzer
- Variable gain and slope
- Secure Lock Operation for multi-user applications
- Input Channel Redundancy with RF Sensing
- Power Supply Redundancy
- Controller Redundancy



MINIMUM SIZE, MAXIMUM VERSATILITY

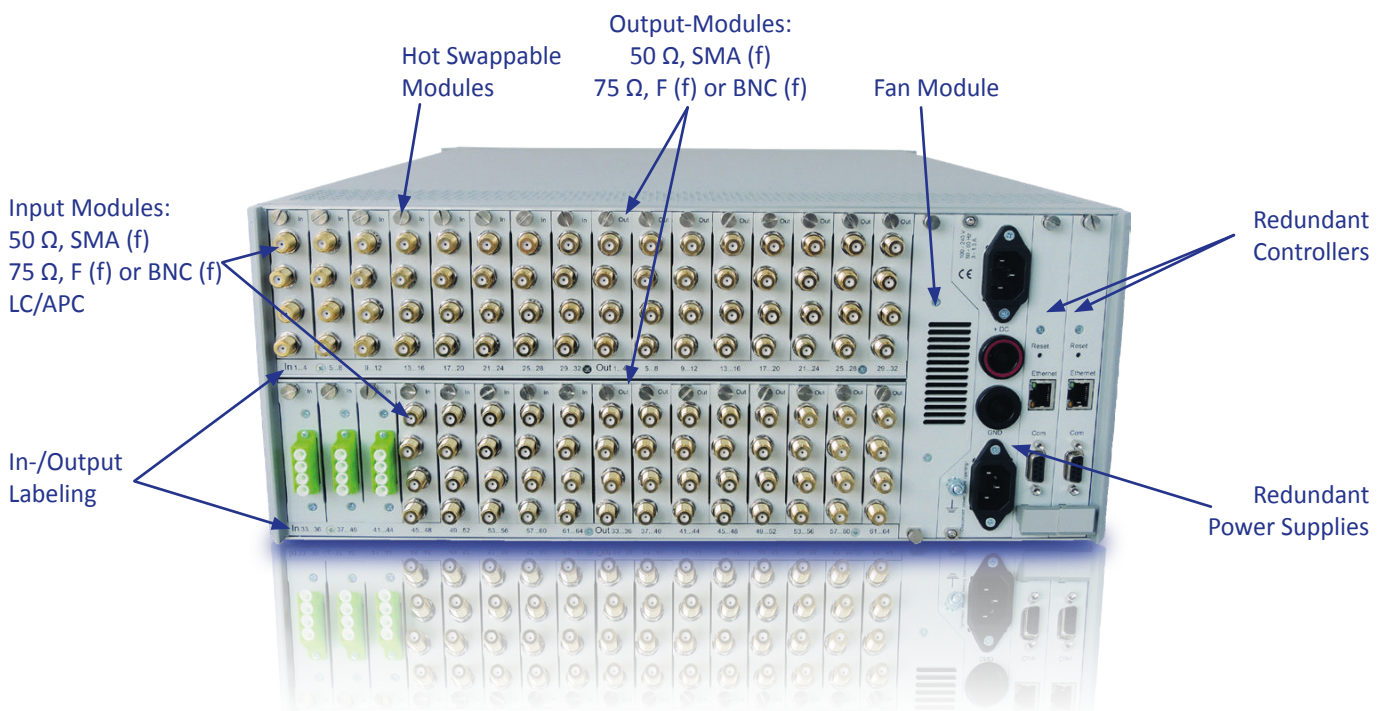
Your Benefits

- Best cost-performance ratio
- Rack space saving design
- Ultra low power consumption
- Intelligent software options
- Unbeatable flexibility for future needs due to the modular design
- Plus: DEV TripleC Protection – the unique 3-year-plus support package



Main Specifications – Archimedes (DEV 1986)

Size	Up to 64 x 64 in 4 RU
Weight	Approx. 25 kg (for 64x64)
Remote Control	DEV Web Interface or SNMP
Frequency Range	950...2150 MHz
Return Loss	> 14 dB
Variable Gain	Manual and Automatic
Variable Slope	0...8 dB
LNB Powering	Through all Input Channels
RF Sensing	Yes
Input Channel Redundancy	Yes
Power Supply Redundancy	Yes
Controller Redundancy	Yes
Integrated TV Receiver	Yes
Integrated Spectrum Analyzer	Yes
Hot Swappable I/O-Modules	Yes



Your Number One Choice for RF Distributing and Combining Matrices

How has DEV set new benchmarks in the RF matrix business? We deliver stronger, smaller, and smarter solutions: DEV products provide more functionality, more state of the art technology and easy-to-use software, along with minimized size and price. Our matrix portfolio also includes:

- **8²** – The compact 8x8 Distributing or Combining Matrix
- **8to4ty** – The most versatile L-Band Matrix up to 8x40 in 2 RU.
- **16²** – The first 16x16 Matrix with up to 20 Outputs in 2 RU.

Reliable Technology, Trusted Expertise

We develop and produce a complete spectrum of high-performance and high-availability RF signal transmission equipment to meet your current and future coaxial cable or fiber optic transmission requirements.

- Distribution Amplifiers, Splitters and Combiners
- Switching Systems, Distributing and Combining Matrices
- Routing Products and Multiplexers
- RF Signal Transmission over Optical Fiber
- Equipment for upgrading cable and HFC networks to DOCSIS 3.1

Modular – Flexible – Manageable

We can also configure custom solutions within the DC-40 GHz frequency range. You can control your DEV equipment easily via our user-friendly DEV Web Interface, SNMP or locally. Accessory products such as Lightning Protection, Bias Tees as well as Impedance Transformers help making your critical signal transmission easy and reliable.

Ready to work with us?

We are always excited about helping our customers meet new challenges – and we believe you will enjoy working with us. Call us with any of your RF transmission needs between antenna and receiver.

Whatever your requirement, discover the DEV solution.

Discover Superior RF Solutions



DEV Systemtechnik GmbH

Grüner Weg 4A
D-61169 Friedberg
Germany

Phone: +49(0) 60 31/6975 100
Fax: +49(0) 60 31/6975 114
www.dev-systemtechnik.com
info@dev-systemtechnik.com

© DEV Systemtechnik · 04/2018