ARCHIMEDES
RF Matrix Switch

dev
Part of the **axing** Group

COMPLEX SOLUTIONS
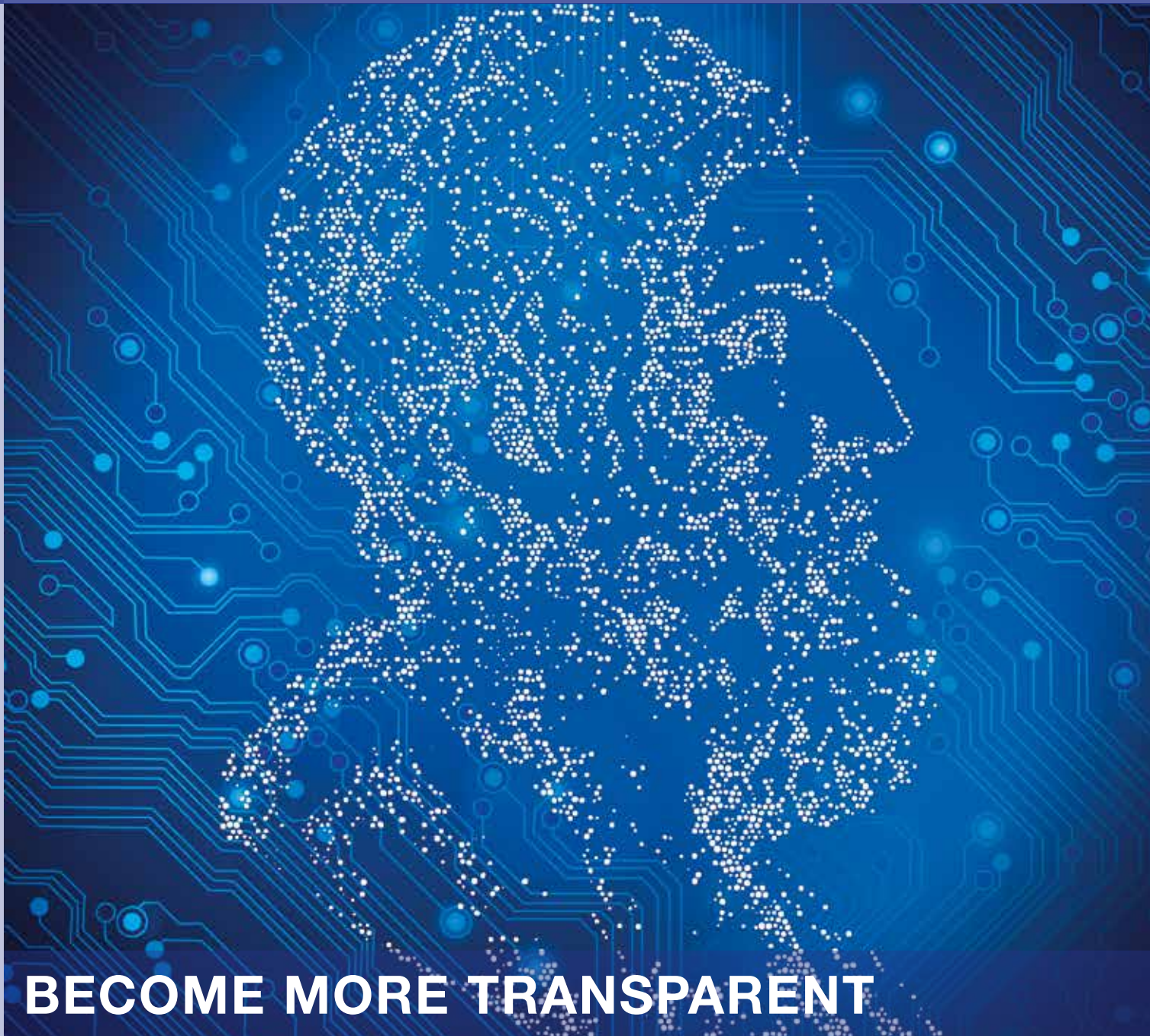
BECOME MORE TRANSPARENT

The Benchmark in Performance, Size, … and Price

Your Number One Choice for RF Distributing and Combining Matrices

There are many good reasons, why we at DEV can truly claim to have set a benchmark in the RF matrix business: For our customers we minimized the size of the product, we reduced the price, and we deliver more functionality and more state of the art technology than ever before.

▟ DEV's new ARCHIMEDES Distributing Matrix is now 1/4 of the previous size

▟ 40 % price decrease vs. comparable former DEV Matrices

▟ Many new features integrated e.g. optical inputs

▟ Unique Full Color Multi-Touch Display

▟ ARCHIMEDES provides the best cost-performance ratio

▟ **And Software that works**

Please compare ARCHIMEDES with other vendor solutions.

Your Benefits

▟ Less rack space and significant lower power consumption

▟ Reduced expenses for your infrastructure

▟ Superior RF performance

▟ Unbeatable flexibility for future needs due to modular design

▟ TV Reception via the integrated full color Multi-Touch Display

▟ Spectrum Analysis by built-in Spectrum Analyzer

▟ Included: the TripleC Protection – our unique post-sales security package

ARCHIMEDES - Your Choice of Features

▟ Standard configurations: 32x32, 32x64, 64x32 or 64x64.
Upgradable versions, up to 2048x2048, are available. Reduction of size is also possible.

▟ Various Input and Output Modules in 75 Ohm, F (f) or BNC (f), or in 50 Ohm, SMA (f)

▟ Optical Input Modules

▟ Built in LNB Powering 13/18 V with or without Tone

▟ Variable Gain and Slope, RF Sensing

▟ Input Channel Redundancy

▟ Controller and Power Supply Redundancy

▟ Secure Lock Operation for Multi-User Applications

▟ Signal Level and LNB Current Recording over Time

▟ Full Color Multi-Touch Display

▟ Integrated TV Receiver

▟ Built-in Spectrum Analyzer

Innovation – Made in Germany
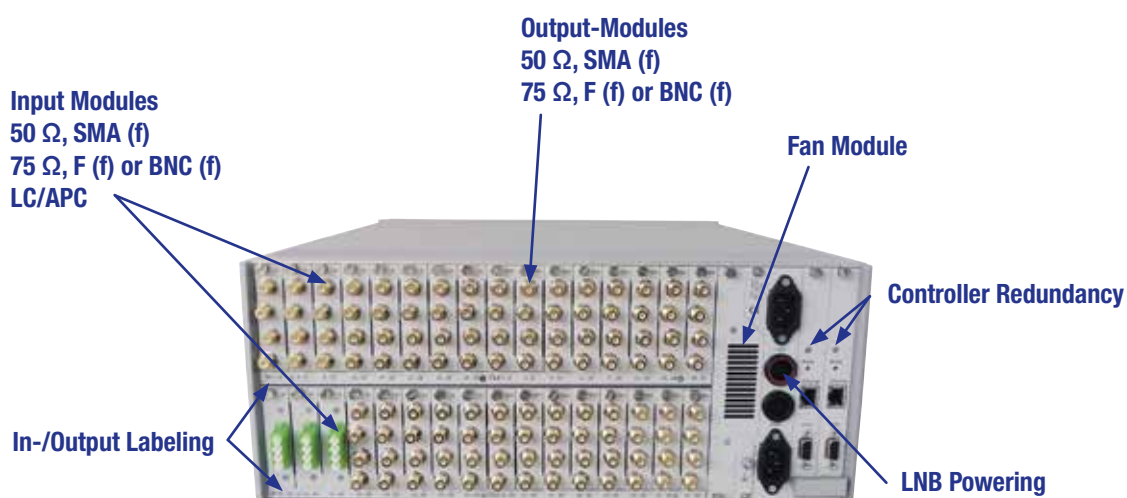
General Information

The RF Distributing Matrix ARCHIMEDES (DEV 1986) is built in a high density 4 RU chassis. It's high degree of reliability constitutes the core of your system. It is available starting from 16x16 and can be easily expanded to 64x64 by increments of 8 inputs or outputs still being in 4 Rack Units.

Archimedes could also be configured as Combining Matrix up to a size of 16x20. This also generates the ability to have a Combining Matrix 16x20 and a Distributing Matrix 32x32 in a single housing of only 4 Rack Units. Smaller sizes of both Matrix systems are also possible.

10.1" Full Color Multi-Touch Display

64x64 in 4 RU

4 RU
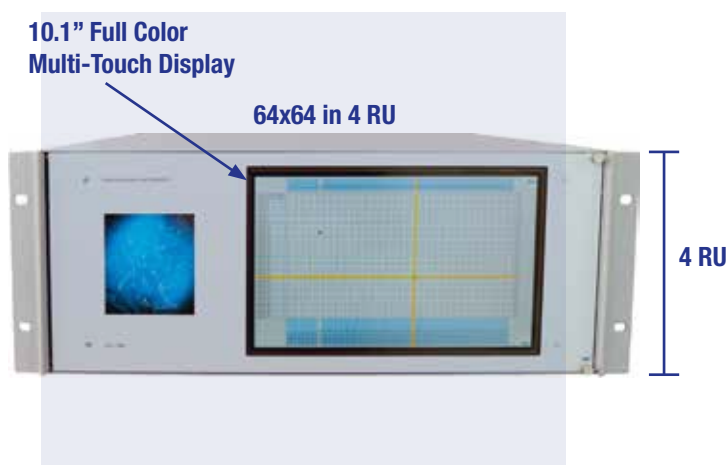
Main Specifications	ARCHIMEDES
Size	64 x 64 in 4 RU
Weight	ca. 25 kg
Remote User Interface	DEV Web Interface
Return Loss	> 14 dB
Variable Gain	0…+35 dB, 1 dB steps
Variable Tilt	0…8 dB
LNB Powering + 1 RU	13/18 V & 0/22 kHz
Input Channel Redundancy	Yes
Power Supply Redundancy	Yes
Controller Redundancy	Yes
Intergrated TV Receiver	Yes
Intergrated Spectrum Analyzer	Yes

ARCHIMEDES provides in a minimum size a maximum versatility with optional features for various customer applications. Redundancy options for input channels as well as for the controller or a whole slave ARCHIMEDES give you as much reliability as you can get on the market.

Output-Modules
50 Ω, SMA (f)
75 Ω, F (f) or BNC (f)

Input Modules
50 Ω, SMA (f)
75 Ω, F (f) or BNC (f)
LC/APC

Fan Module

Controller Redundancy

In-/Output Labeling

LNB Powering

Size matters!

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 requirements in RF transmission over coax and/or fiber optic.

With DEV products you can be confident that you will enjoy superior signal quality and reliability.

Choosing DEV gives you a wide range of products like e.g.:

- Distributing and Combining Matrices
- Redundancy Switching Systems
- RF over Fiber Products (Optribution®)
- Routing Products and Multiplexers
- Distribution Amplifiers, Splitters, and Combiners
- Broadband Active and Passive Products

Why you'll like what we do

All our products are designed for operation in multiple frequency bands and impedances to meet a wide spectrum of unique customer needs. This makes them equally suitable for:

- Cable and IPTV Headends
- Teleports and Broadcasters
- Satellite Ground Stations
- Satellite Operators

Ready to work with us?

We're always excited about meeting new challenges from our customers – and we believe you'll enjoy working with us. To discuss your future requirements, contact us today:

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Demand Superior RF Solutions!

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