

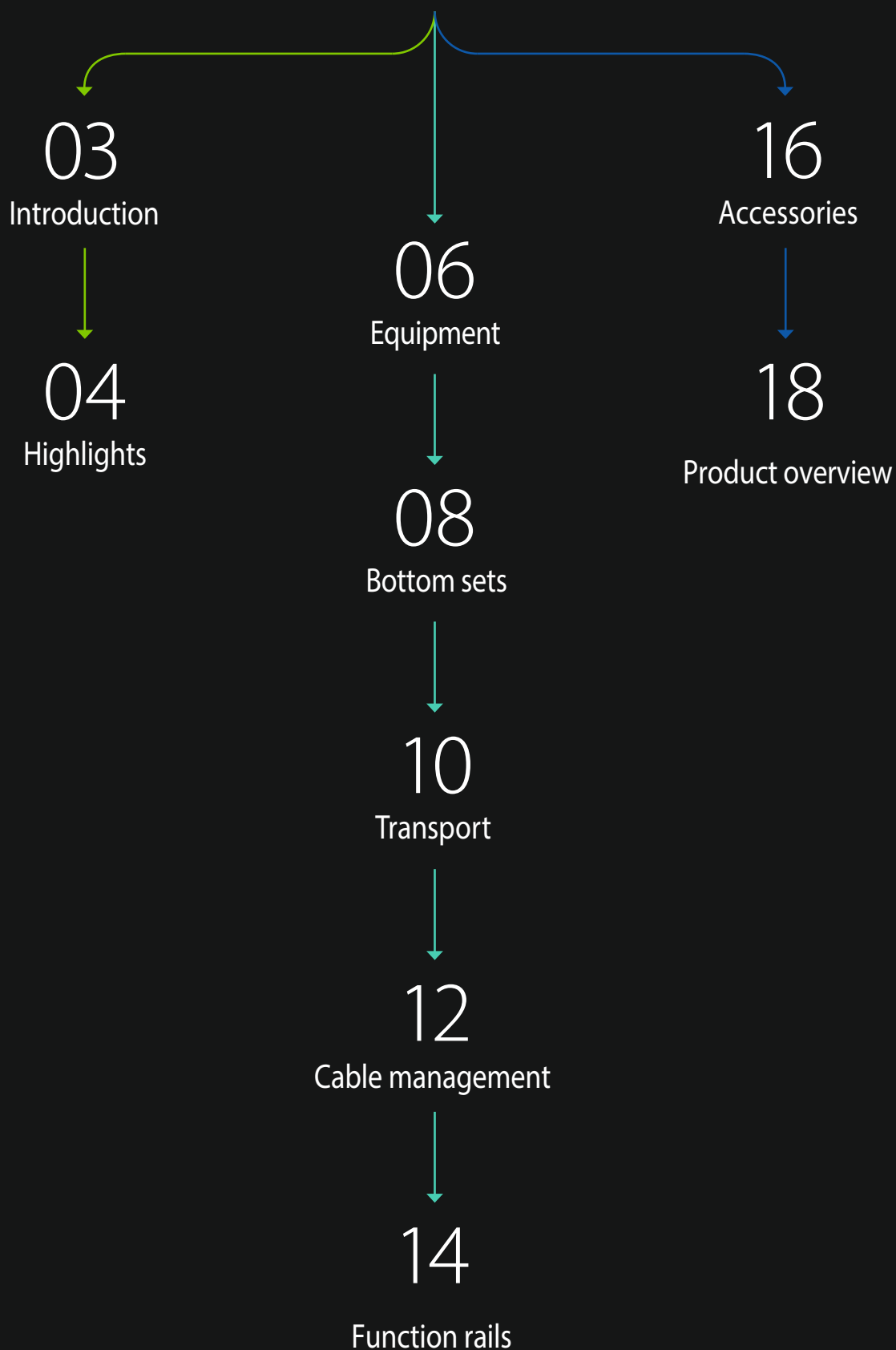
INFRALAN®
System Rack



A brand of



Contents





Solid. Sophisticated. Compatible.

The INFRA LAN® System Rack is a modular expandable 19" cabinet system for flexible use as a conventional free-standing distribution cabinet or in the data centre.

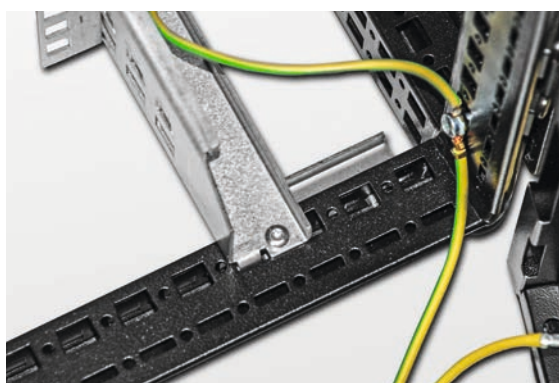
Thanks to the wide range of accessories, it can be expanded individually and meets the highly diverse installation requirements. Additional system cabinets can be added on all sides.

The rack is available in both light grey (RAL7035) and jet black (RAL9005), thereby conforming perfectly to the desired data centre colour schemes. Newly designed, patented frame profiles with a max. load of 1500 kg guarantee high stability.

The side walls are included in the basic model. A bottom unit is available as an option. All cabinet sections are earthed on the profile frame.

Tool-less depth adjustment

Optional depth adjustment of the 19" profile rails without the need for tools. This assures optimum comfort and maximum time saving.



Customised modification

Due to the surrounding grid holes in the profile frame, the profile mounting rails can be adjusted both symmetrically and asymmetrically. By sliding the profile mounting rails to the side, the 19" level can, if necessary, be expanded to 21" or moved completely to the side.



Easy transport

An optional divisible frame guarantees easy transportation of the cabinet system. Structural restrictions such as narrow doors and staircases are no longer an issue..

At a glance

- Basic configuration
- Accessories



INFRALAN® System Rack Highlights

1



VARIANTS
Glass door 1-part
Steel door 1-part
Steel door perforated 1-part

2



EMC-compliant
80 % **DOOR PERFORATION**

VARIANTS
Steel door 2-part
Steel door perforated 2-part



3



Limitless variety

1 The basic version of the INFRALAN® System Rack is supplied with a glass door, a rear wall and two side walls. The side and rear walls are identical. Furthermore, all common door variants such as 1-part or 2-part steel doors are available with and without EMC-compliant 80 % door perforation. For free-standing installation, all doors have an opening angle of 270°.

2 All door variants, without exception, have 3-point bar locking and a turning handle with exchangeable profile half-cylinder.

3 The INFRALAN® System Rack is supplied as standard with side walls. These can be removed or fitted within seconds using the four quick fasteners. Side and rear walls of the same width are identical and can therefore be used universally. This reduces the diversity of sections.

4 Several polyurethane foam strips assure soft closure of doors.

5 A retrofittable lock for the wall elements, which can also be fitted in a few easy steps, provides reliable protection against unauthorised access.

4



5



Individual bottom sets.

1 Bottom with 4 × surrounding cable entry

A bottom unit is recommended to protect the underside. It also seals the cabinet system. 1-part and multi-part bottom sets are available for the INFRALAN® System Rack.

2 Bottom sets, multi-part

1-part bottom sets are suitable for installation at the initial assembly stage. Multi-part bottom sets can also be fitted afterwards.

3 Bottom with 6 × surrounding cable entries (depth 1200 mm)

The bottom sets have up to six pre-punched cable entries, size 450 x 90 mm. In the middle of the bottom unit, there are also openings for ventilation accessories and filter units. Brush bars ensure the cable entries in use are sealed..

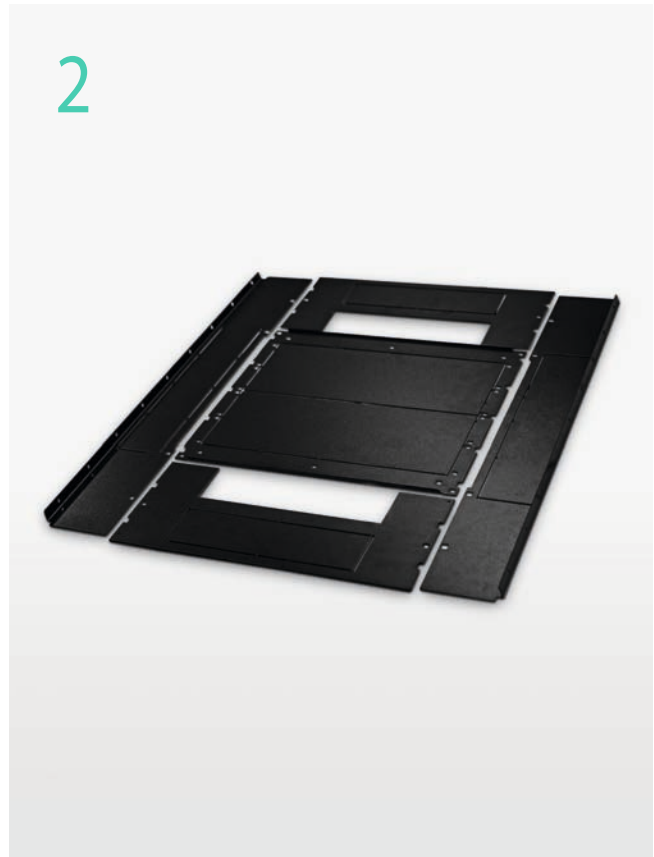
4 Plinth with flexible cable entry

The corresponding plinths are available for installation at a higher level. Cables can be fed through a total of 5 lateral and rear openings of 250 x 70 mm. The front side is perforated for optimal air circulation.

1



2



3



4





The **frame** can be easily divided

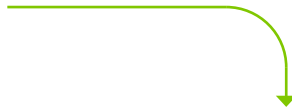
PROFILE RAILS do not have to be disassembled

Only the **OUTER ELEMENTS** are removed

Easy Transport.

Divisible frame (in assembled state)

A rack may be too bulky to transport through narrow doors or staircases. The INFRALAN® System Rack is available with a divisible frame, whereby the width of the cabinet is reduced by half. This means there is no need to disassemble the profile rails – simply the outer components such as walls, roof and doors need to be removed.



Transport lugs

Sometimes a transport by crane is necessary. The transport lugs ensure secure hold, since they are directly screwed into the frame profiles.



Stacking connector (mounted on one side with side wall)

Racks must be stable and securely stacked in the data centre. The stacking connectors connect the profile frames directly to each other, thereby assuring stability. Side walls can continue to be used. Due to the symmetrical profile frame, the INFRALAN® System Rack can be stacked on all sides.

Vertical cable management.



The vertical cable management is secured to the 19" profiles on the right and/or left. The modular design consisting of three modules, each with their own cover and quick fasteners, ensures access is possible at all times.



Cables can be fed in or out on both sides and at the rear. Each individual side opening has its own edge protection to protect the cables. The side wall can be sealed by a brush bar.



To attach one or more socket strips (PDUs – Power Distribution Units), two types of PDU holders are available. These are supplied in sets. The single holder takes one socket strip, the double variant has space for two socket strips next to one another, e.g. for A/B-supply.

PDU-HOLDER
single



PDU-HOLDER
double



The PDU holders can be mounted anywhere and in any position on the profile frame or laterally on 19" profiles.



Request advice!

Do you need help configuring
a server rack or do you have
questions about our products?

Get in touch with us!

www.efb-elektronik.de/kontakt

Quick and simple to
order online:
shop.efb-elektronik.de

Maximum freedom.

Whether cable clamping in any position, the assembly of accessories or attachment of additional installation parts, multifunction rails are the ideal solution in many situations. Due to the symmetry of the profile frame and the all-side surrounding grid holes, the multifunction rails can be mounted in any position – even crosswise in the rack.

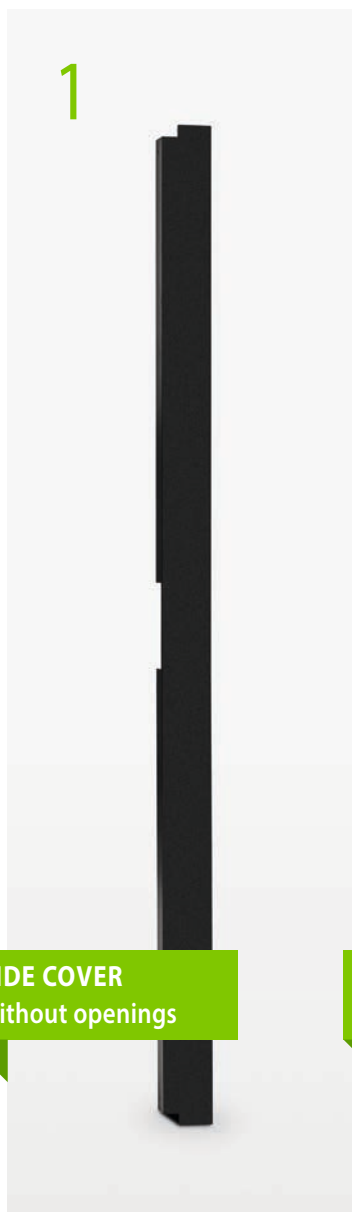


The simultaneous and collision-free mounting of horizontal and vertical multifunction rails is possible thanks to the double row of grid holes in the frame.

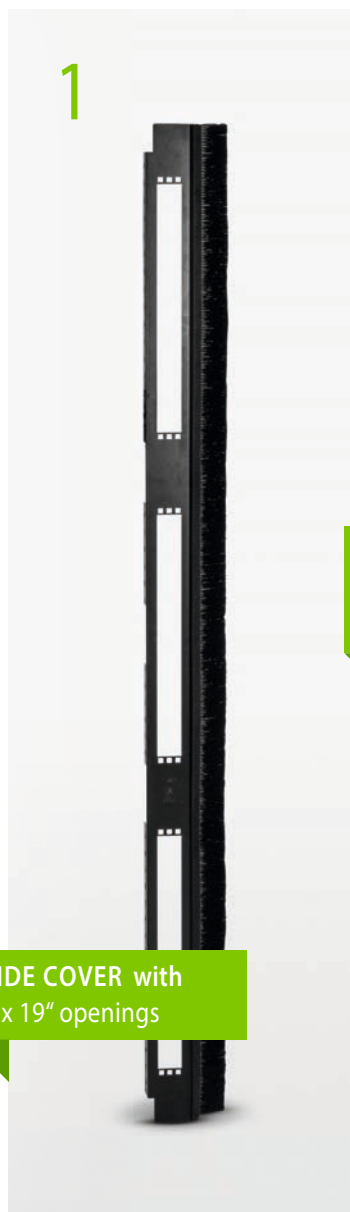


Depth rails and vertical middle profiles provide additional stability. Depth rail sets are used to make the 19" profiles more rigid. The depth rails are securely mounted to the profile frame and then connected to the 19" profiles via short cross-pieces.

The vertical middle profiles stabilise extremely heavy devices such as servers or UPS systems. They are placed between the front and rear 19" level and also supported by a short cross-piece on the depth rail.



SIDE COVER
without openings



SIDE COVER with
3 x 19" openings



The **SIDE COVERS** are
attached to the side of the
grid holes of the 19" profiles



ROOF RAISING SET
fitted

Intelligent accessories.

1 Side covers

Can it be a few height units more? The side covers for 800 mm wide racks not only provide visual cover and air routing. The variant with 3 additional vertical openings for 19" devices also creates more space, e.g. for patch panels directly next to a switch. Brush bars seal both variants at the side.

2 Air routing top/below of the 19" level

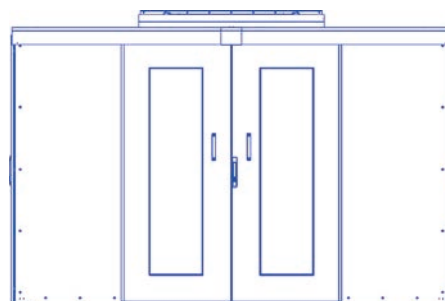
The area above and below the 19" level is isolated from the roof and bottom by brush bars. False air is prevented and the cold air performs its duties where it is meant to: on the devices.

3 Roof raising set

For optimum airflow, the roof of the INFRALAN® System Rack can be raised by 40 mm. The spacer bolts are simply screwed to the profile frame and the roof is put back in position.

4 Cold-/warm aisle enclosures

Components for professional enclosure in the data centre can be individually configured. Get in touch with us!





Basis rack

Prefix	U	Cabinet width	Cabinet depth	Paint finish	Door configuration	Side walls	Options
ISR-	42	8	8	SW	.G1RW	OS	-TW
	42	6 = 600 mm	6 = 600 mm	SW = RAL9005, jet black	G1 = Glass door, 1-part / G2 = Glass door, 2-part	n.a. = with SW (standard)	-T = divisible frame
	45	8 = 800 mm	8 = 800 mm	GR = RAL7035, light grey	S1 = Steel door, 1-part / S2 = Steel door, 2-part		-W = tool-less depth adj.
	47		0 = 1000 mm 2 = 1200 mm		P1 = Steel door perf., 1-part / P2 = Steel door perf., 2-part RW = Rear wall	OS = w/o SW	-TW = both options (divisible frame & tool-less depth adj.)

The first + second digit after the point define the front door, the third + fourth digit define the rear door (or wall). Front + rear door are only identical with a specification.

Delivery without side walls: For delivery without side walls, the abbreviation OS is added after the standard Art.-No.

Option divisible frame: For delivery with divisible frame, the abbreviation -T is added to the standard Art.-No.

Option tool-less depth adjustment: For delivery with tool-less depth adjustment, the abbreviation -W is added to the standard Art.-No.

Configuration examples:

ISR-4288GR.S1OS-TW Rack with 42U, W = 800 mm, D = 800 mm, RAL7035, front + rear door: Steel 1-part, without side walls, divisible frame, tool-less depth adjustment

ISR-4560GR.P1 Rack with 45U, W = 600 mm, D = 1000 mm, RAL7035, front + rear door: Steel door, perforated, 1-part, 2 x side wall

ISR-4282SW.P1P2OS Rack with 42U, W = 800 mm, D = 1200 mm, RAL9005, front door: Steel, perforated, 1-part, rear door: Steel, perforated, 2-part, without side walls



Doors for INFRALAN® System Rack

Prefix for ISR	Type	U	Width	Type	Division	Paint Finish
ISR-	TUR	42	6 = 600 mm	G = Glass door	1- 1-part	.SW = RAL9005, jet black
		45	8 = 800 mm	S = Steel door	2 - 2-part	.GR = RAL7035, light grey
		47		P = Steel door, perforated		

Example: ISR-TUR428P2.GR = Door with 3-point bar locking, 42U, width 800 mm, perforated, divided, paint finish RAL7035, light grey



Side/rear walls for INFRALAN® System Rack

Prefix	Version	U	Cabinet Depth	Paint Finish
ISR-	W	42	8	.SW
	W = Wall element	42	6 = 600 mm	.SW = RAL9005, deep black
		45	8 = 800 mm	.GR = RAL7035, light grey
		47	0 = 1000 mm 2 = 1200 mm	

Example: ISR-W428.SW = Side/rear wall for 42U, depth 800 mm, paint finish RAL9005, jet black

Plinths



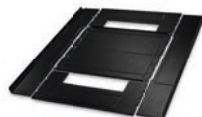
Prefix	Type	Cabinet width	Cabinet depth	Paint finish
ISR-	SOK	8	8	.SW
		6 = 600 mm	6 = 600 mm	.SW = RAL9005, jet black
		8 = 800 mm	8 = 800 mm	.GR = RAL7035, light grey
			0 = 1000 mm	
			2 = 1200 mm	

Bottom set, 1-part



Prefix	Type	Cabinet width	Cabinet depth	Paint finish
ISR-	BOD	8	8	.SW
		6 = 600 mm	6 = 600 mm	.SW = RAL9005, jet black
		8 = 800 mm	8 = 800 mm	GR = RAL7035, light grey
			0 = 1000 mm	
			2 = 1200 mm	

Bottom set, multi-part



Prefix	Type	Cabinet width	Cabinet depth	Paint finish
ISR-	BOM	8	8	.SW
		6 = 600 mm	6 = 600 mm	.SW = RAL9005, jet black
		8 = 800 mm	8 = 800 mm	.GR = RAL7035, light grey
			0 = 1000 mm	
			2 = 1200 mm	



Lock for side/rear wall

Prefix Type
ISR- SCH01

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



Line-up connectors (4 pieces)

Prefix Version
ISR- ANR01

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



PDU holder (2 pieces in set)

Prefix Version Variant
ISR- PDU 01
01 = Holder for 1 × PDU
02 = Holder for 2 × PDU

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



Vertical cable management

Prefix Version U
ISR- VKM 42
42 = 42U
45 = 45U
47 = 47U

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



Side cover with/without 3 × 19" 1U opening

Prefix Version U
ISR- SA 3
3 = 3 openings
0 = no openings 42
42 = 42U
45 = 45U
47 = 47U

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



Air isolation top/below

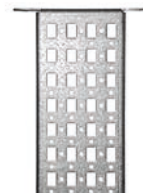
Prefix Version
ISR- LUF01

Paint finish
.SW
.SW = RAL9005, jet black
.GR = RAL7035, light grey



Multi-function rail, horizontal

Präfix Version Cabinet depth
ISR- MFH 08
06 = 600 mm
08 = 800 mm
10 = 1000 mm
12 = 1200 mm



Multi-function rail, vertical

Prefix Version Cabinet height
ISR- MFV 42
42 = 42U
45 = 45U
47 = 47U



Depth rails sets (2 × depth rails, 4 × short cross-piece)

Prefix Version Cabinet depth
ISR- TST 08
06 = 600 mm
08 = 800 mm
10 = 1000 mm
12 = 1200 mm



Vertical middle profile (2 × profile, 2 × short traverse)

Präfix Version U
ISR- MPR 42
42 = 42U
45 = 45U
47 = 47U



Transport lugs (4 pieces)

Prefix Type
ISR- TRA01



Roof raising set (4 × Distance bolts)

Prefix Type
ISR- DAH01



Locations in Germany

EFB-Elektronik GmbH

Striegauer Straße 1
33719 Bielefeld
fon +49 521 404 18-0
fax +49 521 404 18-50

Boschstraße 10
82178 Puchheim
fon +49 89 800 7469-0
fax +49 89 800 7469-29

Johann-Nicol-Dorst-Straße 10
96515 Sonneberg
fon +49 3675 75069-0
fax +49 3675 75069-25

Westende 12
21614 Buxtehude
fon +49 4161 5115-0
fax +49 4161 5115-15

Am Prime Parc 7
65479 Raunheim
fon +49 6142 9466-0
fax +49 6142 9466-15

EFB-Elektronik Austria GmbH

Belgradplatz 5 • A1100 Wien
fon +43 1600 1781-0
fax +43 1600 1781-20
info@efb-elektronik.at
www.efb-elektronik.at

EFB Nordic A/S

Naverland 22 • DK-2600 Glostrup
fon +45 4466 2911
fax +45 4090 9777
info@efb-nordic.dk
www.efb-nordic.dk

EFB Elektronik İthalat İhracat Üretim Tic. LTD. ŞTİ.

Halide Edip Adıvar Mahallesi
Sultan Sokak Mavi Plaza
No:22 D:11/22A
34381 Şişli/İSTANBUL
fon +90 2122 2292-50 (pbx)
fax +90 2122 2292-89
info@efb-elektronik.com.tr
www.efb-elektronik.com.tr



www.efb-elektronik.de

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