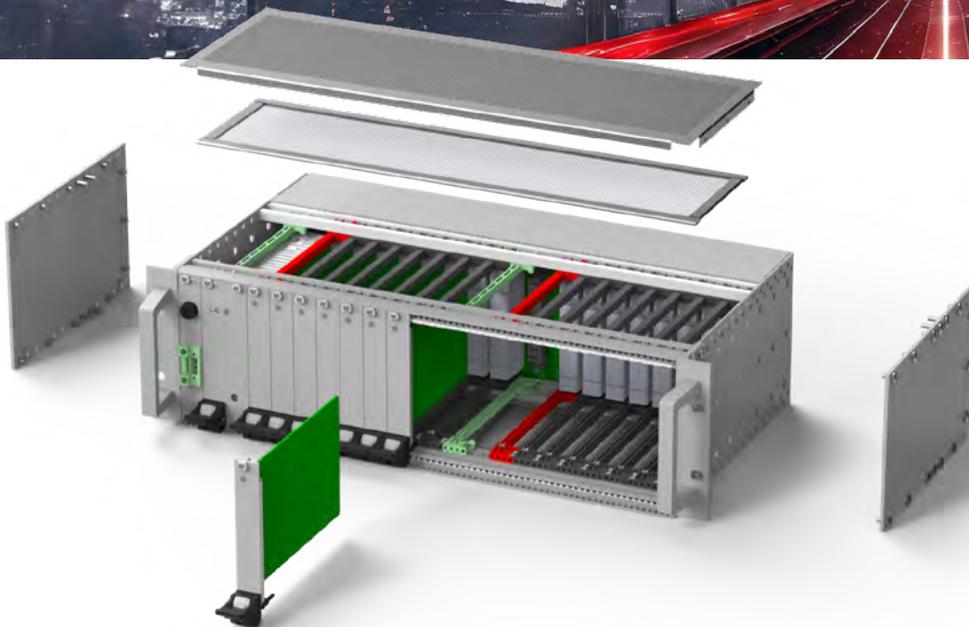


Cybersecure Subracks with  
**Advanced  
EMI Protection**  
for Railways

Boost  
EMI Shielding  
by **160%\***



In today's rapidly evolving railway environment, where next-generation technologies like CBTC, 5G, and AI-powered systems are integrated, the demands for effective electromagnetic interference (EMI) protection are more complex than ever. Designs will need to be more resilient and leveraging additional protection now, ensures reliable operation in the future.

*\*At 40GHz*

# Rail Certified Subracks— **FOR ON-BOARD AND TRACKSIDE USE**

On-board and trackside subracks and chassis are  
**engineered to withstand the  
challenging railway environments**



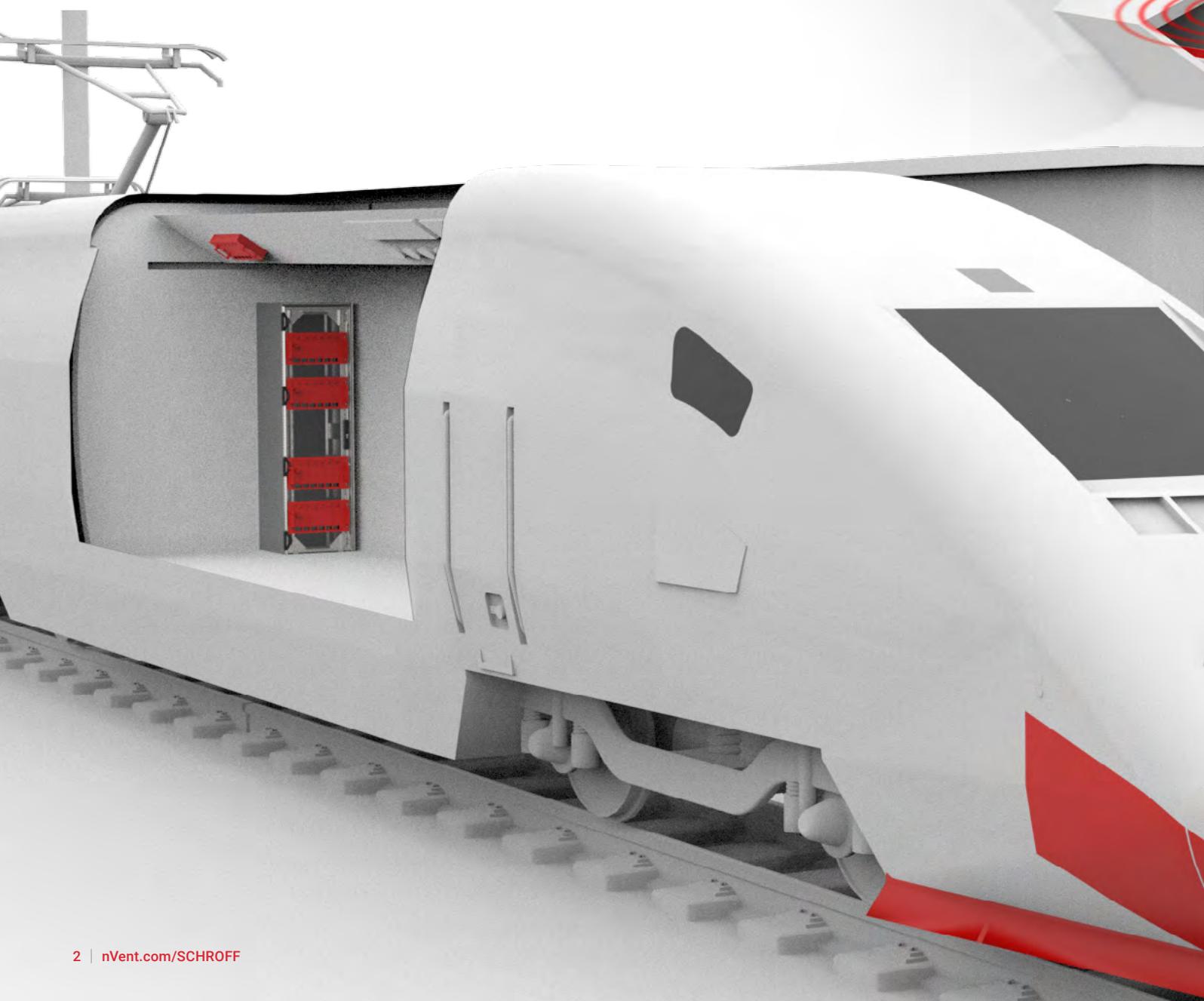
EN 61000-5-7  
IEC 61587

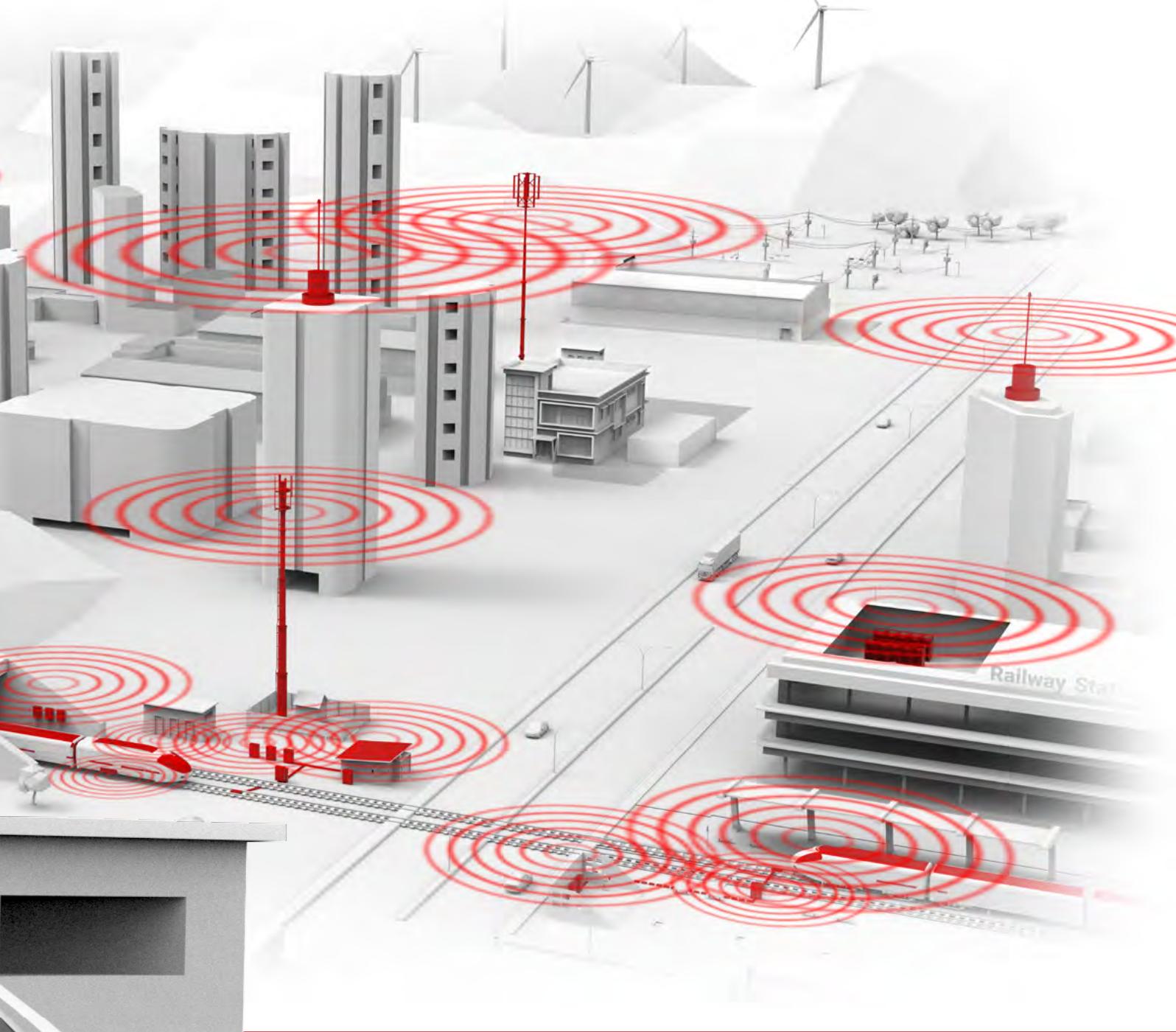


EN 50155  
AREMA



EN 45545



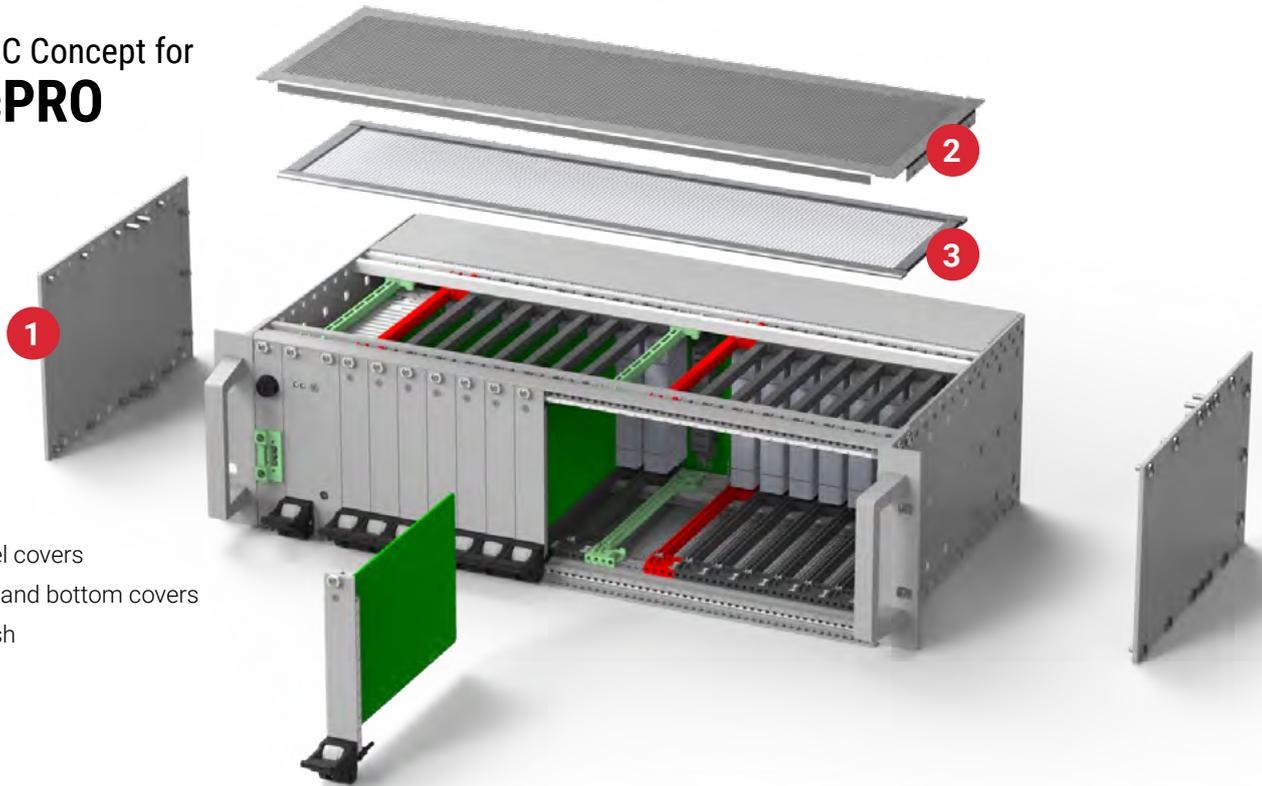


- ▶ Houses vital control unit for ETCS, CBTC, ATO, PTC and ATS and track to train transmission
- ▶ Driver machine interface
- ▶ Passenger information system
- ▶ Door control system
- ▶ Braking system



# Boost EMI Shielding by 160%\* with **FUTURE-PROOF SUBRACK DESIGN**

## Advanced EMC Concept for **EuropacPRO**



1. New side panel covers
2. Optimized top and bottom covers
3. Dual layer mesh



### **Safety:**

Our solutions improve end-user safety and help our customer enhance the safety of their operations.



### **Resiliency and Protection:**

Our solutions add resiliency to critical systems by helping keep them safe from natural and manmade disruptions.



\*At 40 GHz

### **Design advancements include:**

- ▶ Optimized top and bottom covers for RF shielding, air flow and fire safety
- ▶ Side panel covers to increase lateral protection
- ▶ Tested in accordance with EN 61000-5-7 up to 40 GHz
- ▶ Test report available
- ▶ Field upgrade kits available for EuropacPRO subracks in the field

# Ready for tomorrow, **FUTURE-PROOF YOUR SYSTEMS**



## **EuropacPRO Advanced EMC Plus: Up to 160%\* improvement.**

Includes new side panels, top and bottom covers, and dual mesh layer between the chassis and the covers.

U Height	HP Width	Depth D mm	Board Depth	Part no. with front handle	Part no. without front handle
3	84	235	175	<b>24563-920</b>	<b>24563-970</b>
3	84	295	175	<b>24563-921</b>	<b>24563-971</b>
3	84	355	175	<b>24563-923</b>	<b>24563-973</b>
3	84	295	235	<b>24563-922</b>	<b>24563-972</b>
3	84	355	235	<b>24563-924</b>	<b>24563-974</b>
3	84	355	295	<b>24563-925</b>	<b>24563-975</b>

U Height	HP Width	Depth D mm	Board Depth	Part no. with front handle	Part no. without front handle
6	84	235	175	<b>24563-930</b>	<b>24563-980</b>
6	84	295	175	<b>24563-931</b>	<b>24563-981</b>
6	84	355	175	<b>24563-933</b>	<b>24563-983</b>
6	84	295	235	<b>24563-932</b>	<b>24563-982</b>
6	84	355	235	<b>24563-934</b>	<b>24563-984</b>
6	84	355	295	<b>24563-935</b>	<b>24563-985</b>

## **EuropacPRO Advanced EMC Plus: Up to 100%\* improvement.**

Includes new side panels, top and bottom covers.

U Height	HP Width	Depth D mm	Board Depth	Part no. with front handle	Part no. without front handle
3	84	235	175	<b>24563-900</b>	<b>24563-950</b>
3	84	295	175/235	<b>24563-901</b>	<b>24563-951</b>
3	84	355	175/235/295	<b>24563-903</b>	<b>24563-953</b>

U Height	HP Width	Depth D mm	Board Depth	Part no. with front handle	Part no. without front handle
6	84	235	175	<b>24563-810</b>	<b>24563-960</b>
6	84	295	175/235	<b>24563-911</b>	<b>24563-961</b>
6	84	355	175/235/295	<b>24563-913</b>	<b>24563-963</b>

Other configurations are available, please see the [Catalog](#) for details or reach out to your local nVent SCHROFF representative.

Advanced EMC top / bottom covers and side panel covers are available to upgrade existing nVent SCHROFF sub racks deployed. Please see the [Catalog](#) for details

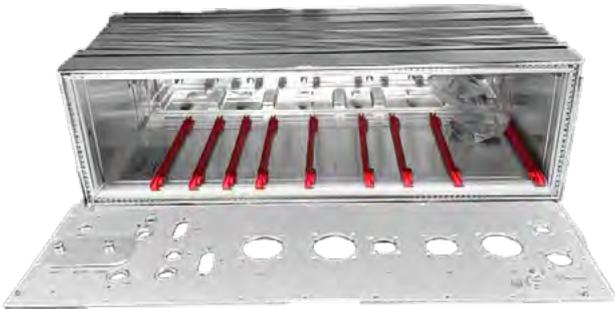
\*At 40 GHz

# Tailored to the **APPLICATION**

Modifications on a project basis are possible including mounting or additional passive cooling.



- ▶ 19" DIN rail mounted subracks integrated into wall or polemount trackside enclosure



- ▶ Heat fins for passive cooling for additional heat transfer on-board



- ▶ UV digitally printed front panels

# Integrated **SOLUTIONS**

In today's rapidly evolving railway environment, where next-generation technologies like CBTC, 5G, and AI-powered systems are integrated, the demands for effective electromagnetic interference (EMI) protection are more complex than ever. Designs will need to be more resilient and leveraging additional protection now, ensures reliable operation in the future.



# Globally Produced. **LOCALLY SUPPORTED.**



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