



**CONNECT AND PROTECT**

# Railway Technology Overview

On Board & Trainside Certified Partner

  
nvent

**SCHROFF**

# nVent Solutions for each Environment

INDOOR - OUTDOOR - ON BOARD



GSM-R



Ruggedized card retention up to 40G



On board Cabinet 10-40U  
Space saving swing frame option



Space saving mounting frame for subrack system.



European Train Control System / Vehicle On Board Computer



Conducted cooled With IP65 Integrated PSU & CPCI Backplane also communication BUS, also available to AAR specification

## ONBOARD

### CABINET:

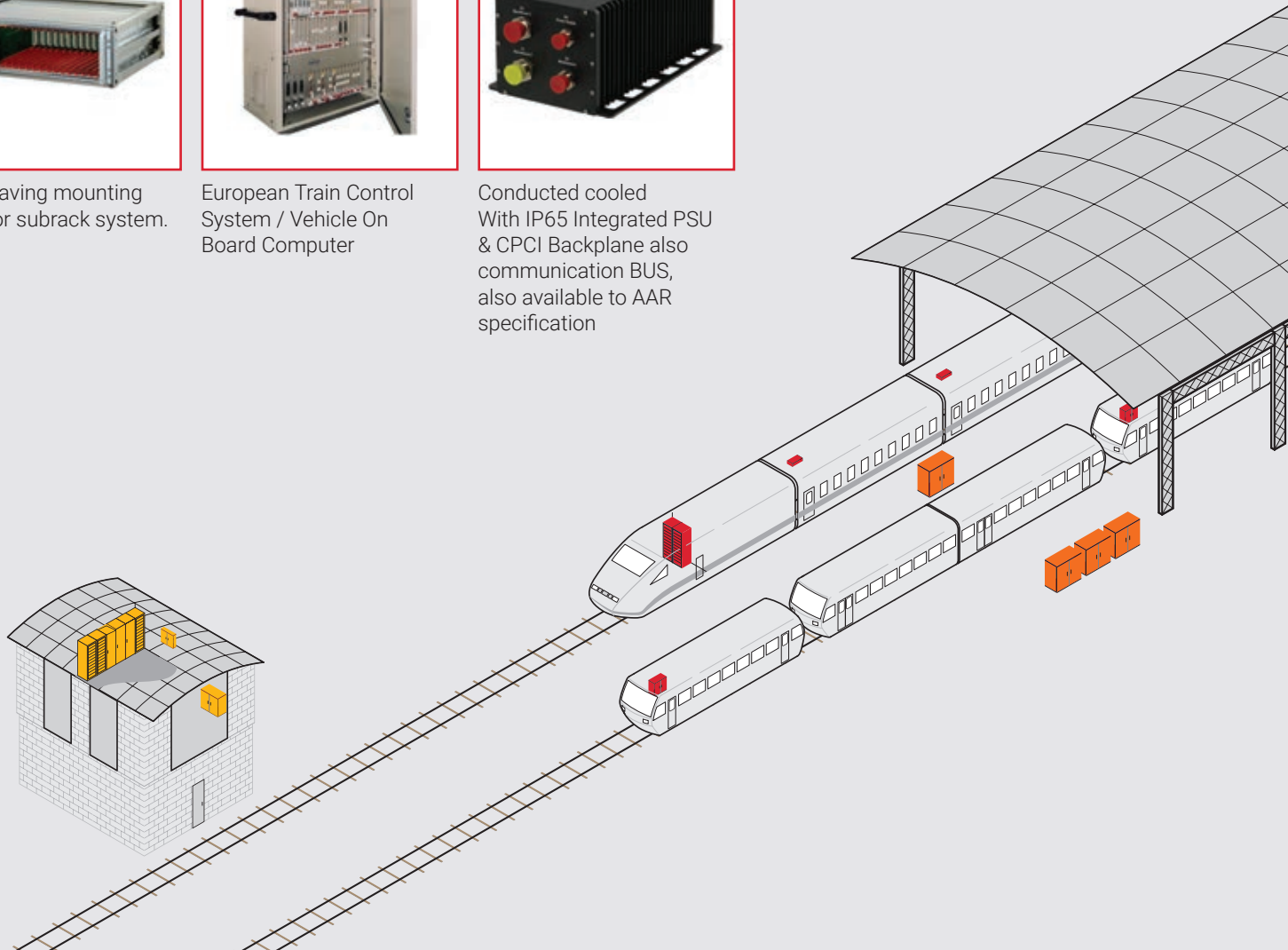
EN15085, EN45545 in progress.  
EMC IEEE Std 299-2006, IEC 61587-3, up to IP55.

### SUBRACK:

EN50155, wide T° range -40°C / +85°C, -40°F / +185°F, dimension IEEE1101.11, BN411003, NF 61005, EN45545

### WALLMOUNT:

EN15085/AWS, EN45545.



## TRACKSIDE OUTDOOR

### CABINET:

IP55, Outdoor paint LSZH.  
Single or double walled construction.  
Solar load protection.  
Rain protection for maintenance.  
Cooling options include: passive and active

### WALLMOUNT:

EN15085/AWS, EN45545, Door  
Opening up to 180° with locking latch.  
Wall and Pole mount options available.  
Aluminium, Mild and Stainless Steel.  
Cooling options include: passive and active.



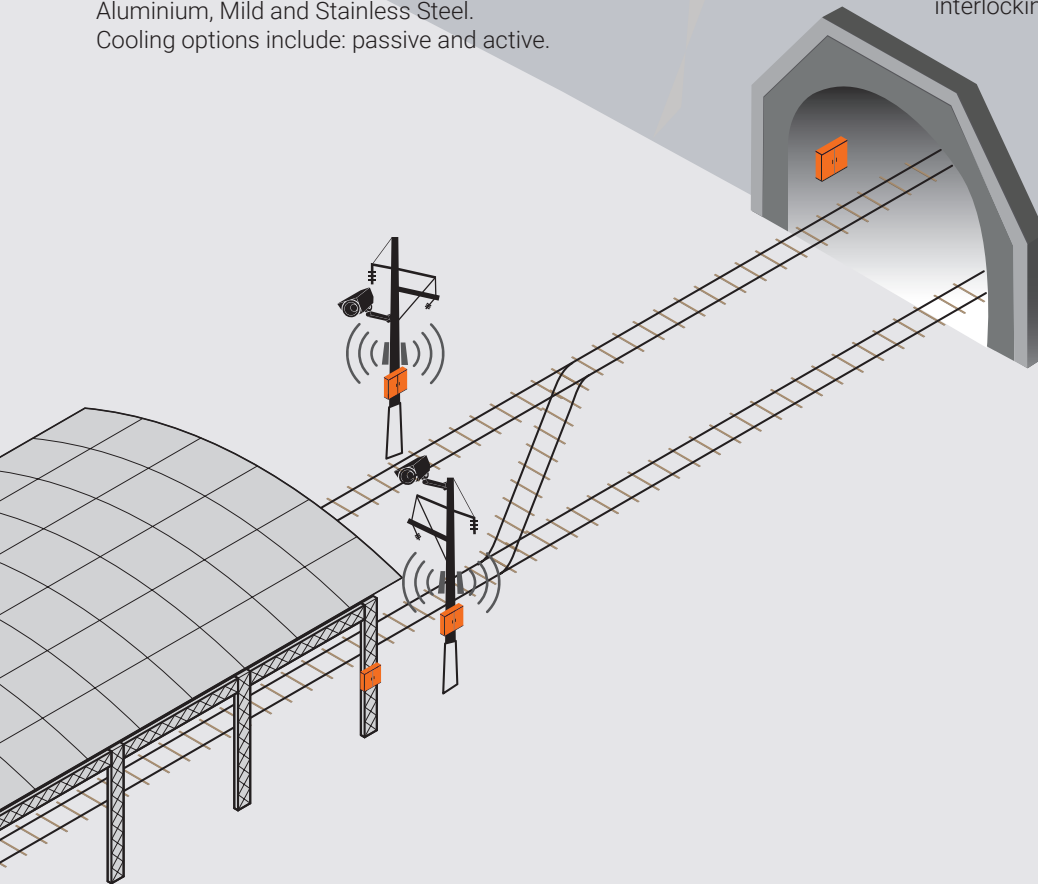
Power distribution & High voltage detection



Axle counter, zone controller, wheel T°, track maintenance, interlocking.



Wi-fi, Access point, Fiber splicing, Wall & Pole mount options, Full Integration Service



## TRACKSIDE INDOOR

### CABINET:

Cenelec EN50125-3 & Arema 11.5.1 Class C for Shock and Vibration EN15085/AWS, LSZH (Tunnel). EMC IEEE Std 299-2006, IEC 61587-3, up to IP55. Cooling options include: passive and active.

### WALLMOUNT:

EN15085/AWS, EN45545, Door Opening up to 180° with locking. Wall and Pole mount. Aluminium, Mild and Stainless Steel. Cooling options include: passive and active.



Interlocking Trackside CPCI



Smart cooling fan tray



Signalling & Passenger information systems

## DESIGNED TO MEET RAILWAY REQUIREMENTS

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- Platform solutions which can be modified to meet your application needs
- Full Integration service
- IRIS CERTIFICATION
- ISO / AWS CERTIFIED

## YOUR PARTNER FOR ENCLOSING, PROTECTING AND COOLING RAIL TRAFFIC SYSTEMS

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- Safeguard your system with nVent SCHROFF products both standard and modified standard platform solutions.
- IRIS and ISO quality systems in place
- Project and life cycle management:
  - Original design concept
  - Prototyping
  - Testing & Certification
  - Serial production on a Global Footprint

## CERTIFICATIONS LEGEND

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- EN15085 / AWS welding certifications
- IEEE Std299-2006, IEC61587-3 EMC certifications
- EN50155 on board shock & vibration for subracks
- CENELEC EN50125-3, AREMA 11.5.1 track side shock & vibration for enclosures
- EN45545, low smoke zero halogen, tunnels and on board

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