

DEUTA REDpointPRO®

A new PZB ATP System for Germany and Austria

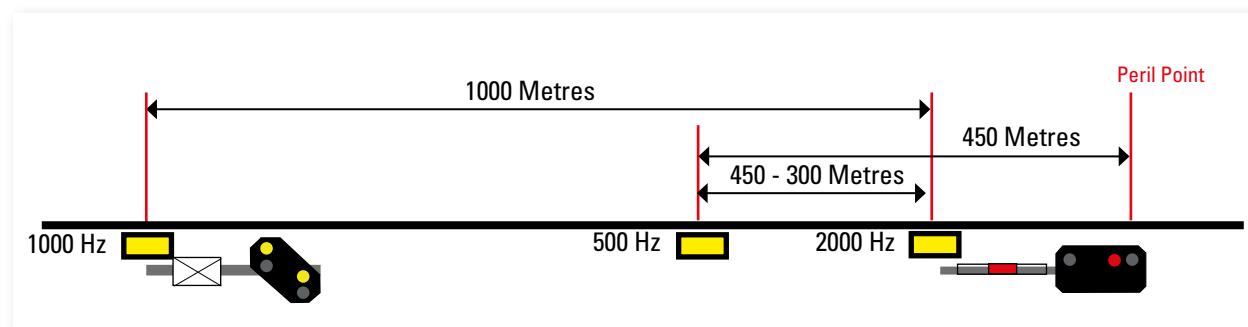
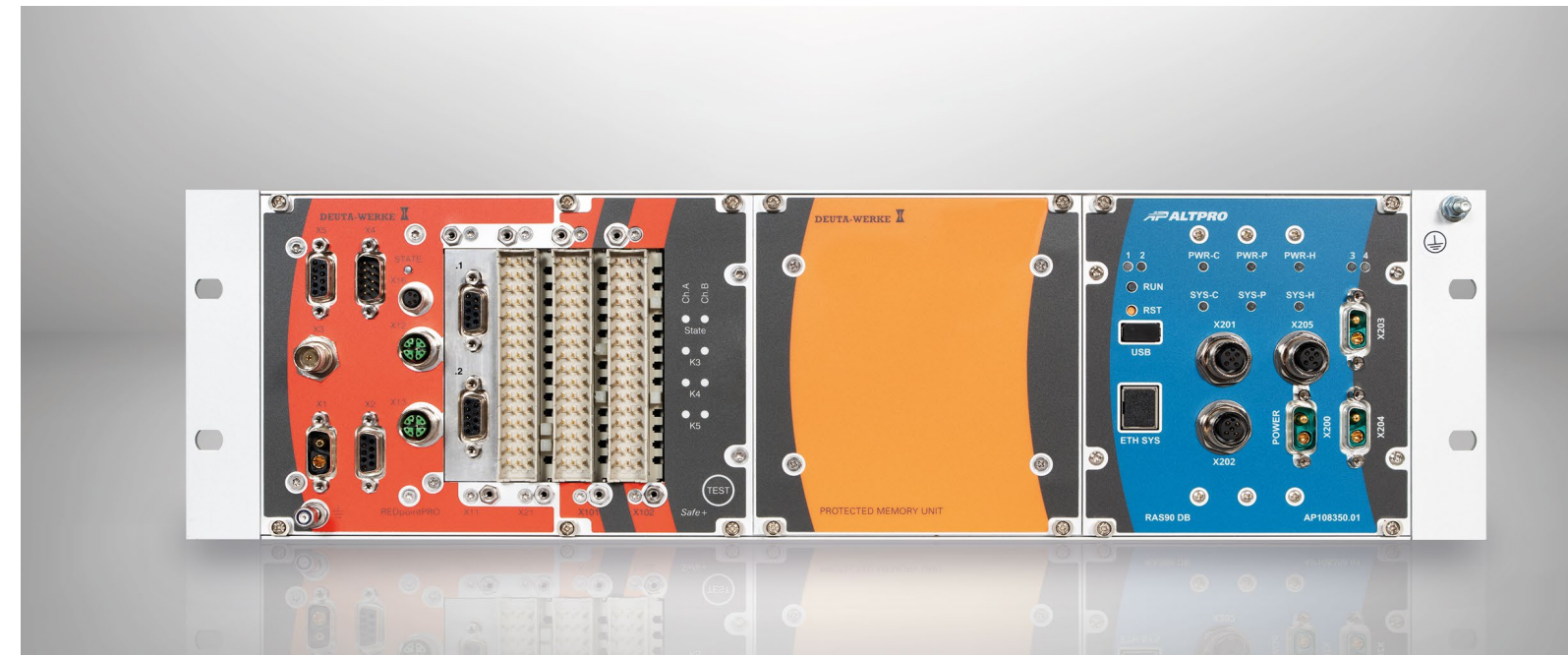


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A modern PZB ATP as an all in one solution:

- ✓ Homologated according to the recent operators requirements (DB)
- ✓ Addressing safety gaps identified over years of PZB operation in current installations
- ✓ Compared to legacy systems on the market, compliant with state-of-the-art standards
 - railway products (EN50155)
 - fire protection (EN45545)
 - functional safety (EN5012x) and others
- ✓ Ready for the Cybersecurity Resilience Act (CRA), effective in 2027



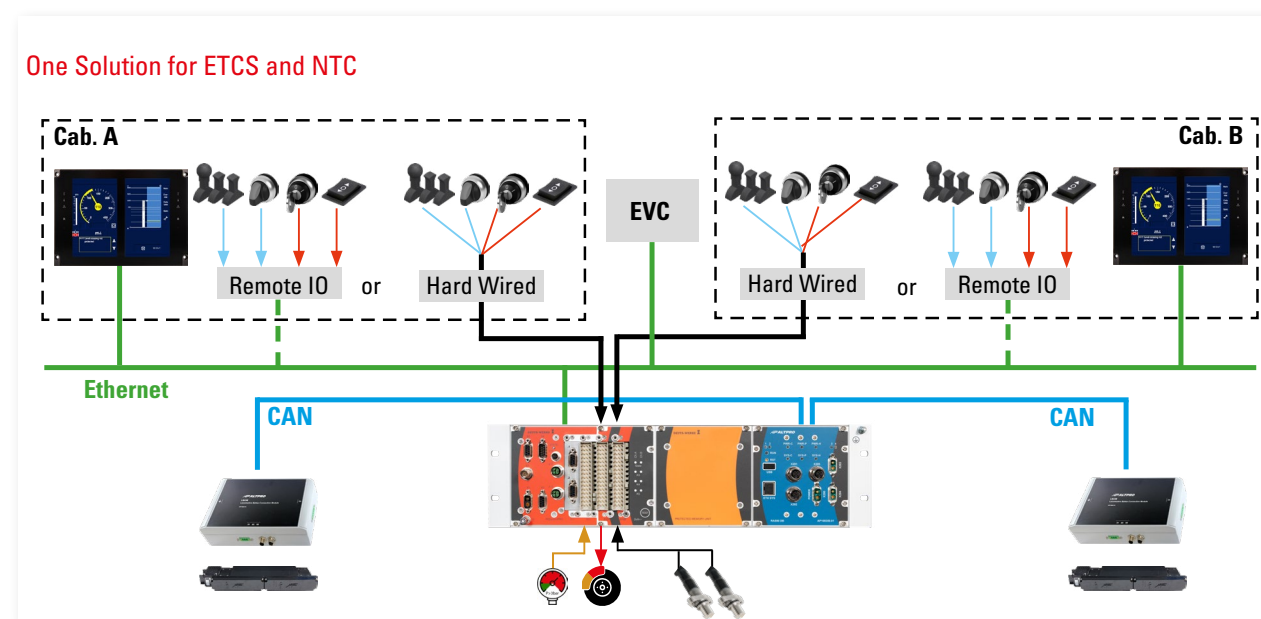
Featuring:

- ✓ Rich functionality in a compact system within a single 19" rack including:
 - JRU with TSI compliant Crash Protected Memory
 - Versatile gateway to ETCS systems and TCMS via Ethernet, MVB and CANopen
 - Built-in web interface for maintenance and diagnostics
- ✓ Plus speed-related safety functions at Safety Integrity Levels 2, 3, and 4
 - DSD (vigilance control)
 - Speed thresholds
 - Provision of safe speed
 - Rollback protection
 - Standstill detection
 - Cold movement detection



Extendable and interfacing to:

- ✓ 2x DMI with Safety features and compliant to DB Technical Rules (e.g. DATS3080)
- ✓ 2x PZB Magnet Reader via CAN Bus
- ✓ A variety of speed sensor like Hall Sensor pick-up HS22 or axle Encoder DF16, homologated with the system matching specific vehicles needs
- ✓ Driver desk controls and switches either via bus or discrete wiring
- ✓ ETCS EVC

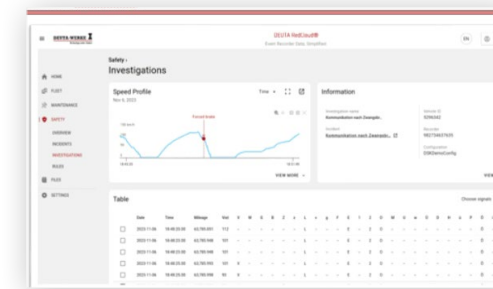


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Operation improved by:

- ✓ Simplifying maintenance due to diagnostic
- ✓ Data Read out via USB stick
- ✓ Cloud-based data analysis with automated report generation required for legal purposes



Why PZB ATP System from DEUTA and ALTPRO?

- ✓ Because DEUTA-WERKE & ALTPRO are a strong team with long experience in the rail industry
- ✓ DEUTA being for more than 35 years supplier to PZB systems in Germany and Austria and has provided over 4500 PZB systems (ER24) in the past. It is a well-known partner to German (Q1) and Austrian operators
- ✓ A LTPRO supplying the onboard PZB to other east European countries including track side equipment with many installations



- ✓ The fleets of Deutsche Bahn and Austrian Federal Railways comprise 18,000 vehicles, which will need to be retrofitted with ETCS over the coming decades. In addition, the Slovenian, Croatian, Serbian, Romanian and Israeli rail vehicles will be equipped with ETCS.

DEUTA-WERKE

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