

See Charcroft at  
**Rail Live**  
 20–21 June 2018  
 Stand No W74

## Rail Challenge #1: Legacy system upgrades

Challenge Charcroft to help you to overcome obstacles to designing upgrades for electronic systems in rolling stock or signalling. The flexibility to customise standard products can enable new components to become drop-in replacements for legacy parts, or provide additional environmental protection against harsh environments.

### Standard, semi-custom and fully customised components

#### POWER SUPPLIES

- EN50155 & EN50121 compliant
- EN50121-4 AC/DC 150W
- Wide input voltages
- Vacuum encapsulation



#### RESISTORS

- Surface mount
- Tubular wire-wound
- Voltage- & current-sense
- Specialist power resistors



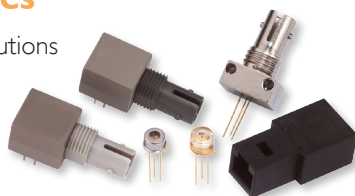
#### THERMOSTATS, SENSORS & BREAKERS

- Pressure sensors
- Thermostats
- Circuit breakers



#### OPTOELECTRONICS

- ST-connectorised solutions
- Fibre-optic TX/RX discrete components



#### CAPACITORS

- Aluminium electrolytic
- High-power, HV film capacitors
- Precision mica capacitors
- High-voltage MLCC
- Tantalum



#### MAGNETICS

- Transformers & inductors
- Sensors & electro-magnets



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ELECTRONICS

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**Charcroft: Challenge Accepted**

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Passives, Power, E-mech, Sensors & more