Certificate of Acceptance PA05/08272

Manufacturer: Westermo

Issue : 2

Valid From : 05.11.26

Merlin 4407 Router

Product Description

Merlin 4407 Router for HABD (Hot Axle Bearing Detection) system 4G Remote Access.

Product Image



Scope of Acceptance

The product has full acceptance for HABD uses, specifically;

- Operational status monitoring
- Fault diagnosis and investigation
- Retrieval of system data and event logs
- Engineering support and maintenance activities

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Steve Rennolds
Product Acceptance Specialist

Authorised by:

Rob Anderson
Principal Engineer

Please contact prodacc@networkrail.co.uk

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

1) See General Terms and Conditions
2) Quality production and management procedures shall be followed
3) Any obsolescence shall be communicated to Network Rail.
4) Operation and Maintenance manuals shall be made available when the product is supplied.

User

1) The product shall be used where suitable on Network Rail infrastructure.
2) For HABD use only.
3) Installation and technical instructions shall be followed when using and installing this product.

Product Configuration

Complete Assembly

Part No.	Description	Catalogue No.
4407 Router	Westermo Merlin 4407 Router	086/009590
1211-2210	RJ45 to 9-pin D-type adaptor cable	086/009591

Obsolete Hardware

Part No.	Description	Catalogue No.
3623-0401	MRD-455	086/069369*

*All stocks of MRD-455 shall be exhausted and a direct replacement is the Merlin 4407.

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Issue 1	Trial of Westermo Merlin 4407 Router HABD 4G Remote Access		24.9.20	1
4407-T4-S2-LV-QFZ	Westermo EU Declaration of conformity, Merlin 4407			1
	Westermo Merlin – Industrial Cellular Router Merlin 4400 series			1
	Westermo, Merlin 4400 Management Guide			1
SXL-25.05.68.000	Westermo SXL Software Release notes Merlin 4100/4400/4600 Series Release		15.6.26	1
	Westermo user Guide – Merlin 4400 Series – industrial Cellular Router			1
Merlin-4407-T4-S2-LV-QFZ	Westermo UK Declaration of Conformity		26.1.23	1
1211-2210	Westermo – Auxiliary serial adapter cable			2

Certificate History

Issue	Date	Issue History
1	30.9.26	First acceptance of 4407 router due to obsolescence of MRD-455 router.
2	05.11.26	Second acceptance certificate to include cable 1211-2210

Contact Details

Manufacturer

UK Westermo Data Communications ltd

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vince.collis@westermo.com

Applicant

N/A

Lead Reviewing Engineer

Chris Saint
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General Terms & Conditions

1) General
1) This certificate can only be amended by Network Rail Product Acceptance, the relevant Network Technical Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date via the NR sponsoring applicant.

2) Manufacturer
The Manufacturer shall:
1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Network Rail Design for Reliability Standard (DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
2) Notify Network Rail Product Acceptance in writing (email prodacc@networkrail.co.uk):
a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
b. Of any intended change to the accepted product; changes include:
i. a change to the product configuration (to the actual product or its application);
ii. a variation to or addition of manufacturing locations or processes;
iii. a change in the name or ownership of the manufacturing company;
iv. any changes to the ability or intention to support with technical services, spares or repairs.
3) The Manufacturer shall provide Network Rail Product Acceptance or National Supply Chain (NSC) at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to Network Rail Product Acceptance.
4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
8) In accordance with Network Rail's Quality Assurance Policy Statement, where the specification and/or Product Acceptance Certificates specify quality assurance classifications for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use
Specifiers, installers, operators, maintainers, etc. using the product shall:
1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Product Acceptance.
2) Check that the application of use complies with the relevant certificate's scope of acceptance.
3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Product Acceptance.
4) Inform Network Rail Product Acceptance in writing of a change to the product configuration (or to the actual product or its application).
5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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4) Compliance
Railways and Other Guided Systems (ROGS) Regulations
1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsoring applicant shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
2) As required in Railway Group Standard RIS-8270-RST, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

a. All rail vehicle types that have access rights over the area affected by the change
b. Infrastructure managed by others
c. Neighbours.
Railway Interoperability Regulations
3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail and Road) is required before the equipment is to be used in revenue earning service.
5) Supply Chain Arrangements
1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.