

### Certificate No. NESA-S029

<b>Approval date</b>	17/07/2019
<b>Approved by</b>	GM Technical Standards
<b>Report no.</b>	NESA-S029
<b>Report date</b>	18/06/2019

*This certificate is issued to*

**Supplier** Westermo Data Communications Pty Ltd

*In respect of*

<b>Manufacturer</b>	Westermo Data Communications Pty Ltd
<b>Product description</b>	Lynx, RFI & RedFox Ethernet Switch range
<b>Item identification</b>	<ol style="list-style-type: none"> <li>Lynx L210-F2G-12VDC – Managed Ethernet Switch</li> <li>Lynx L208-F2G-S2 – Managed Device Server Switch</li> <li>RFI-219-F4G-T7G – Industrial Routing Switch</li> <li>RedFox-5528-E-F16G-T12G-LV – 19" Managed Ethernet Switch</li> <li>RedFox-5528-E-F4G-T24G-LV – 19" Managed Ethernet Switch</li> <li>RedFox-5528-E-T28G-LV – 19" Managed Ethernet Switch</li> <li>RedFox-5528-F16G-T12G-HV – 19" Managed Ethernet Switch</li> <li>RedFox-5528-F4G-T24G-HV – 19" Managed Ethernet Switch</li> </ol>

**Application** Signalling and Control Systems

**Relevant Standards** EGP 21 01 New Equipment and System Approvals  
 EN50121-4 / IEC62236-4 Railway Applications - Electromagnetic Compatibility  
 EN61000-6-(1-4) 'Electromagnetic compatibility Generic standards  
 IEC62236-4 Railway Signalling and Telecommunications Apparatus  
 IEC60068-2 Environmental Testing of Electronic Equipment  
 RISSB AS7702 Rail Equipment Type Approval  
 SPS01 Standard Requirements for Signalling Electronic Systems  
 SPS02 Environmental Conditions

**Conditions of Approval**

- Only items listed are approved for use on the ARTC network
- Safety assurance will be required for projects requiring the switches to transport vital safety data over wireless comms.

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

3. Switch mode power supplies to be used for powering of the systems, where possible.
4. The devices are to be configured by competent personnel.
5. A no-break power supply should be considered to ensure system availability.
6. For use in accordance with ARTC signals construction standards and standard data communications only.
7. Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer shall notify ARTC of any modification or changes in order to obtain a valid updated certificate.
8. Any updates to the firmware/boot ware, that improves the network performance or improves the reliability of the network shall be notified to ARTC, along with release notes and updated manuals.
9. The firmware version, data version and configuration of IP addresses and all other configuration items are to be documented at design and verified at commissioning and are a controlled drawing.
10. Drawings of network configuration to be provided as part of design.
11. Approved site-specific configuration files, shall be provided as part of the signalling design documents and as-built documentation.

*A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.*

*Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.*

### Note/Comments

**Issue date** 17/07/2019

**Issued by**



**Expiry date** N/A

**Nick Petticrew**

**Acting ARTC Manager Standards**