

Certificate No. NESA-S091

Version No. 1.2

Certificate type	Full
Approval date	27/03/2026
Approved by	Manager Engineering Services
ARTC Inventory Product No.	N/A

This certificate is issued to

Supplier	Automation Group Unit 3, 4 Action Street Noosaville, QLD 4566
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In respect of

Manufacturer	Brodersen 832 High Street, Kew East, VIC 3102, Australia
Product description	Level Crossing monitoring system
Supplier product no.	Brodersen - RTU32N, RTU32M
Item identification	See list of approved items
Application	ARTC Level Crossing Monitoring, Network Wide
Relevant Standards	IEC61000 – Electromagnetic Compatibility IEC60068 – Environmental Testing EN55024 - Information technology equipment - Immunity characteristics - Limits and methods of measurement ESD-05-05 – Level Crossing Monitoring Requirements SPS02 – Environmental Conditions

Conditions of Approval

- For use in the application of Level Crossing Remote Monitoring as per ESD-05-05 and AS7705 Standards.
- Only approved item shall be used.
- To be used and installed in accordance with manufacturer's requirements and guidelines.
- First implementation of the Brodersen shall ensure 4Site interface is fully developed in compliance with the applicable standards. For consistency in the specific jurisdiction, local practices are required to be addressed in consultation with the ARTC signal engineering manager and ARTC Operational Technology.
- For level crossing projects, the first implementation shall develop the circuit and data design in compliance with the ARTC & AS Standards and ARTC practices to ensure consistency. Upon acceptance of the first level crossing monitoring project by the signal engineering manager, further commissioning can be progressed. The designer shall

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produce the data design and design report to capture compliance against the ARTC level crossing monitoring.

- Project team to ensure that the circuit designs and source data are provided to the ARTC signal maintenance manager along with data control sheet and other deliverables.
- The designer to encrypt the data to avoid installation at incorrect locations in consultation with the Project and Signal Maintenance manager.
- All personnel who are involved in the development, checking or independent validation of Brodersen application shall have undergone Brodersen training and retain evidence to support this training.
- Maintenance to be performed based on manufacturer's guideline and as per the ARTC service schedule. The signalling maintenance team shall have undergone Brodersen training and retain evidence to support this training.
- 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

NIL

Issue date

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Manager Engineering Services

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Approved Item list:

Part Number	Description	Comments
UCN-42IO/1A005.91	Brodersen RTU32N	<p>UCN part number prefix designates the RTU32N "all in one" RTU. The part number suffix represents:</p> <p>42IO = 20DI, 8DO, 8DIO, 6AI</p> <p>1= 128MB RAM, 128MB Flash, 128KB NVRAM</p> <p>A = 200 to 900 MHz</p> <p>0 = No Modem</p> <p>05 = 10-30V DC supply voltage</p> <p>9 = Analog Inputs measure current</p> <p>1 = Digital inputs are 12-24VDC unipolar</p> <p>Note: BOOT-MSD option is required.</p>
RTU32M-ARTCLXM-60120800	Brodersen RTU32M	<p>The RTU32M is a modular RTU that is assembled from a combination of CPU, PSU, IO modules and optional add-ons. For this application, the part number represents a complete assembly consisting of the following individual modules and options:</p> <p>CPU (MP32A) Qty = 1</p> <p>SD Memory card (BOOT-MSD)</p> <p>PSU (PS24A) Qty = 1</p> <p>20 channel digital input (DI20A) Qty = 3</p> <p>12 channel relay output (DO12R) Qty = 1</p> <p>8 channel analog input (AI08A) Qty = 1</p>