

Thomas & Betts

DATE : 2010-07-15

Model Justification Letter for the Area Controller and Area Controller Router

FCC ID: W3BNEXUSAC

IC ID: 8100A-NEXUSAC

Product Name:

- **Nexus Area Controller (AC)** model # 199.0555
- **Nexus Area Controller Router (ACR)** model # 199.0578

This letter is to confirm the similarity of these two units.

The **Area Controller Router** is the same unit as the **Area Controller** but without these three options:

- keyboard
- display
- battery backup

These two units have the same:

- mother board
- software
- processor
- memory
- IO ports
- Supply
- modular RF Modem
- RF configuration (antenna, output power and frequency operation)

See Figure 1 (Diagram Block Nexus AC) and Figure 2 (Diagram Block Nexus ACR) for details.

The ACR (Router) is a cheaper version of the AC. It only uses for expanding the RF network. An Area Controller could manage up to 100 nodes. For a bigger network we must add other(s) controller(s). It is the reason why we created this de-populated version of controller, for reducing the cost of this network.

We use the same FCC/IC ID labels for these two units, only the model number will change. See Figure 3 (Label installation) and Figure 4 (Label model) for details.

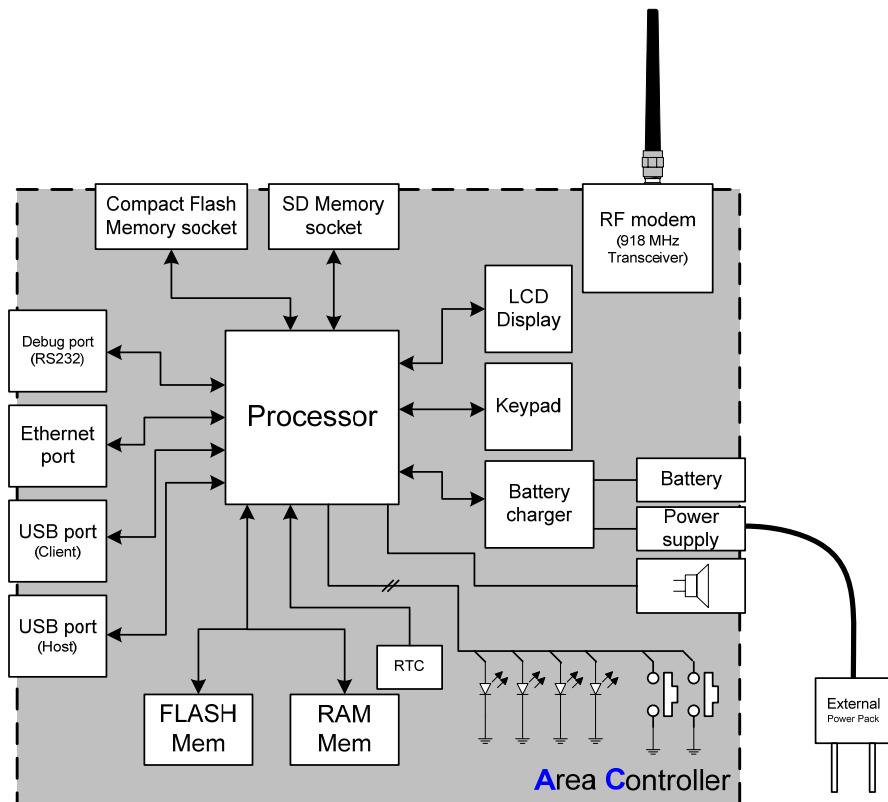


Figure 1 (Diagram Block Nexus AC)

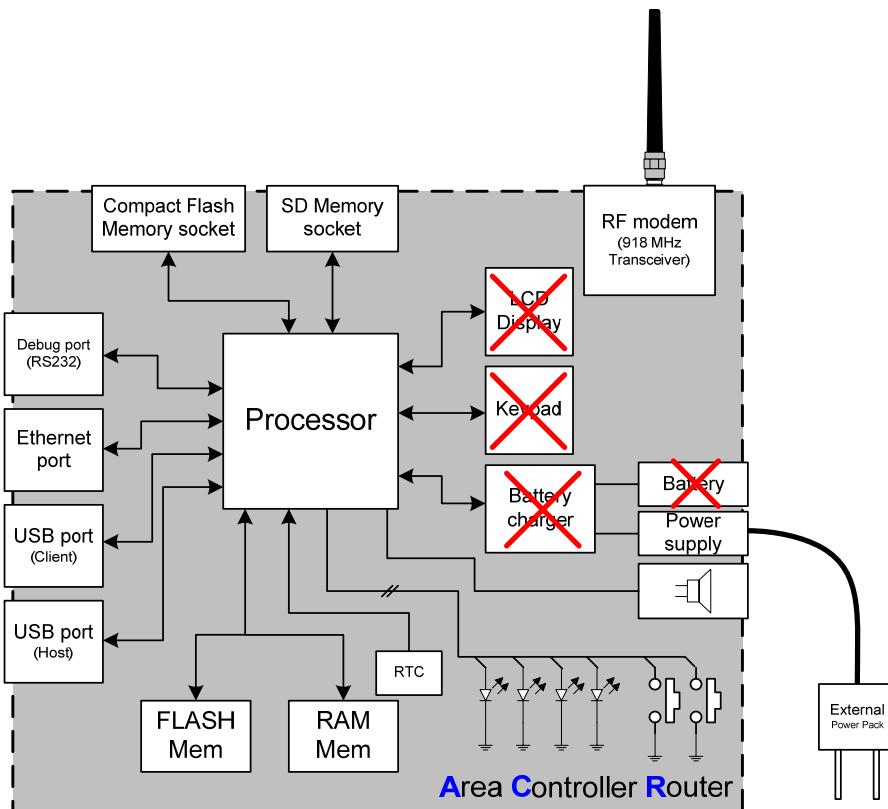


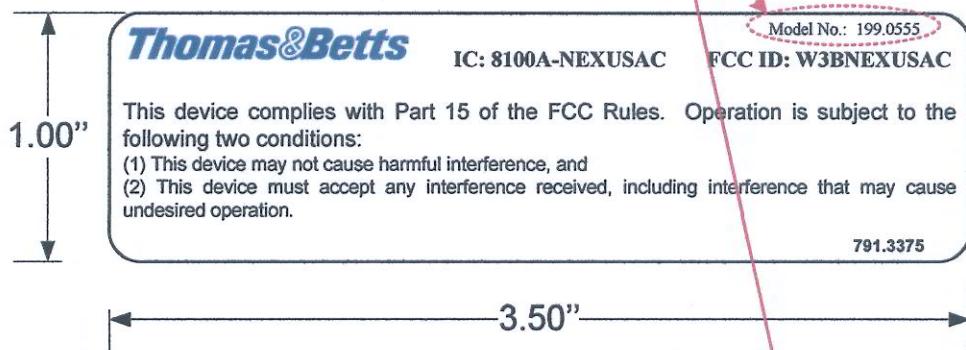
Figure 2 (Diagram Block Nexus ACR)

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The Model No. is a variable field and depends of the Area Controller type. The Area Controller full option is called AC and the Area Controller de-populated is called ACR

AC = 199.0555
ACR = 199.0578

Label for the AC and the ACR US version



Label for the AC and the ACR Canada version

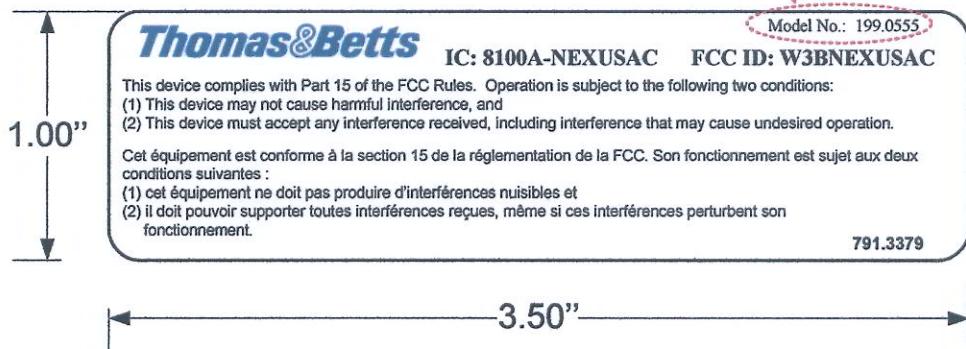
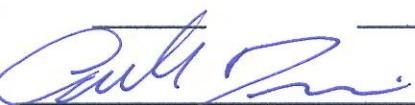


Figure 4 (Label model)

Dated 15 Day of July 2010
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By:  Camille Descarries
 Signature Printed

Title: Team leader R&D

On behalf of : (Thomas and Betts)

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