
TN201SC-B Internal Photographs

Document Number: BW-009093-RP

Version Number: 2

Product Reference: Degas

Proprietary and Confidential

Version History

<i>Issue Number</i>	<i>Author(s)</i>	<i>Version Date</i>	<i>Summary & Comments</i>
1	BWT	23/03/2022	TN201SC internal photographs
2	BWT	08/04/2022	Revised internal photographs

Related Documents

<i>Ref.</i>	<i>Title</i>	<i>Number</i>	<i>Version & Date</i>
[1]	TN201SC external photographs	BW-009092-RP	22/03/2022

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1. Introduction

This document shows the inside of a **TN201SC** unit.

The unit is shown in two main parts with a connecting cable and the PCBAs are comprised of:

- **TN001XC** – this is the main processor unit that is housed inside and is IP54 rated
 - This contains the Main processor board – Network Processor Board: BWT050
 - Also has the small connection board – BWT062

- **TN201SP** – this is the remote radio unit that is house outside and is IP66 rated
 - Modem board – BWT051
 - Two radio modules – Sivers RFM3-R2 (BFM06010/00)
 - GPS antenna

- **TNCAB2B** – this is the cable that connects the two parts

2. TN001XC Internal Photographs

2.1 Inside back cover showing the main processor board top view

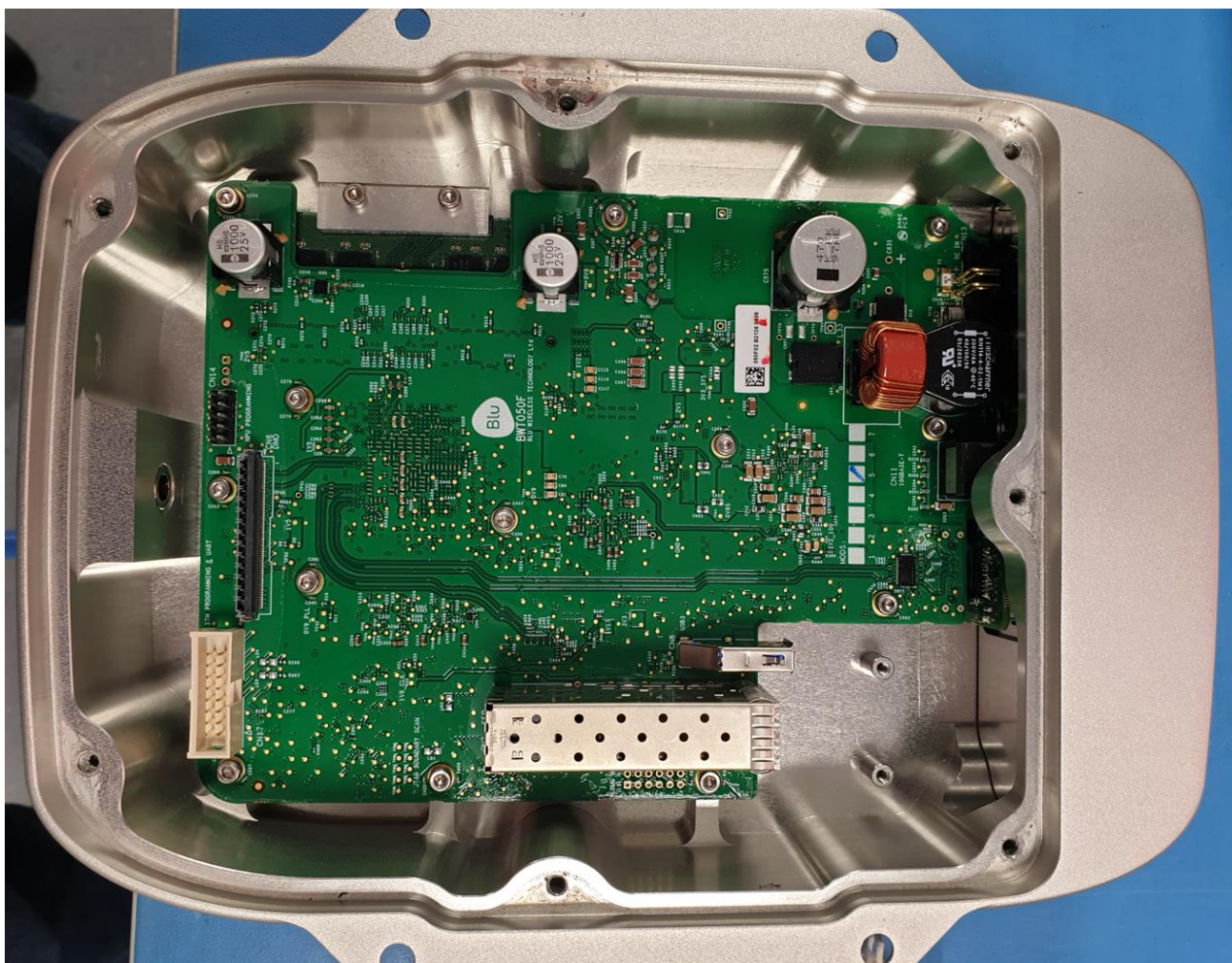


Figure 1 – Inside Back cover of TN001XC showing the BWT050 Network Processor Board (TOP)

2.2 Main processor board bottom view

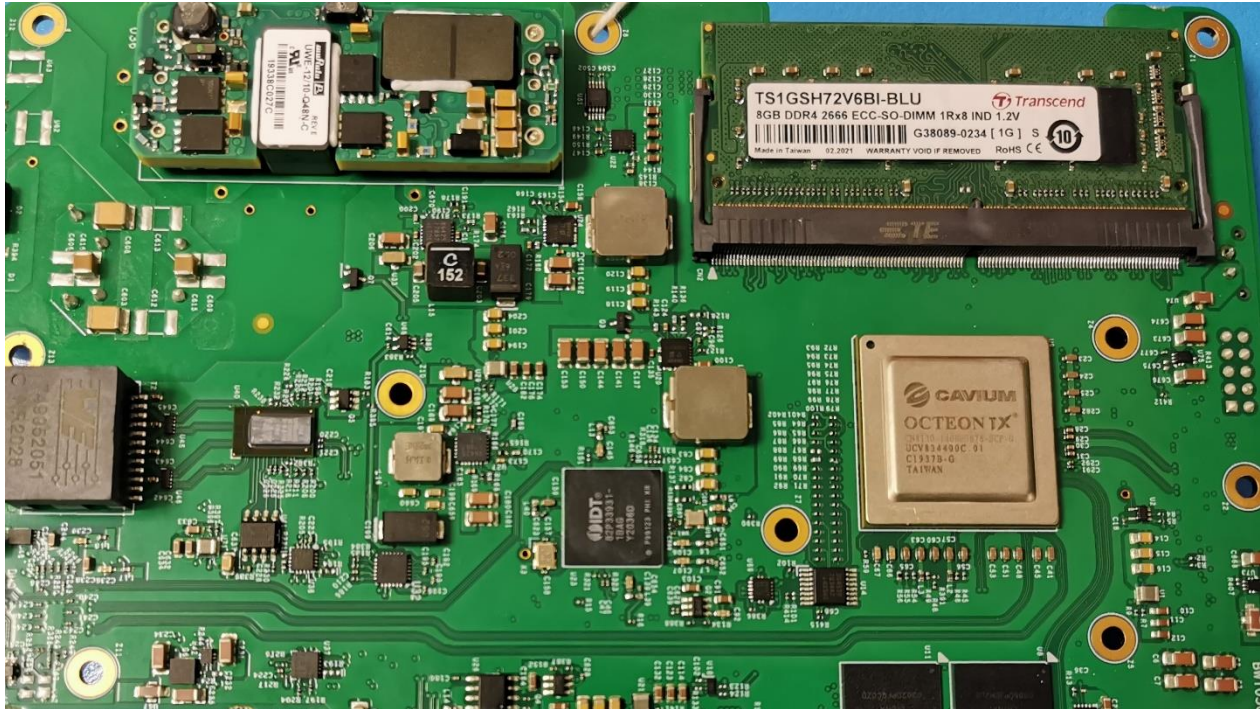


Figure 2 – the BWT050 Network Processor Board (BOTTOM)

2.3 Inside back cover showing the small connection board

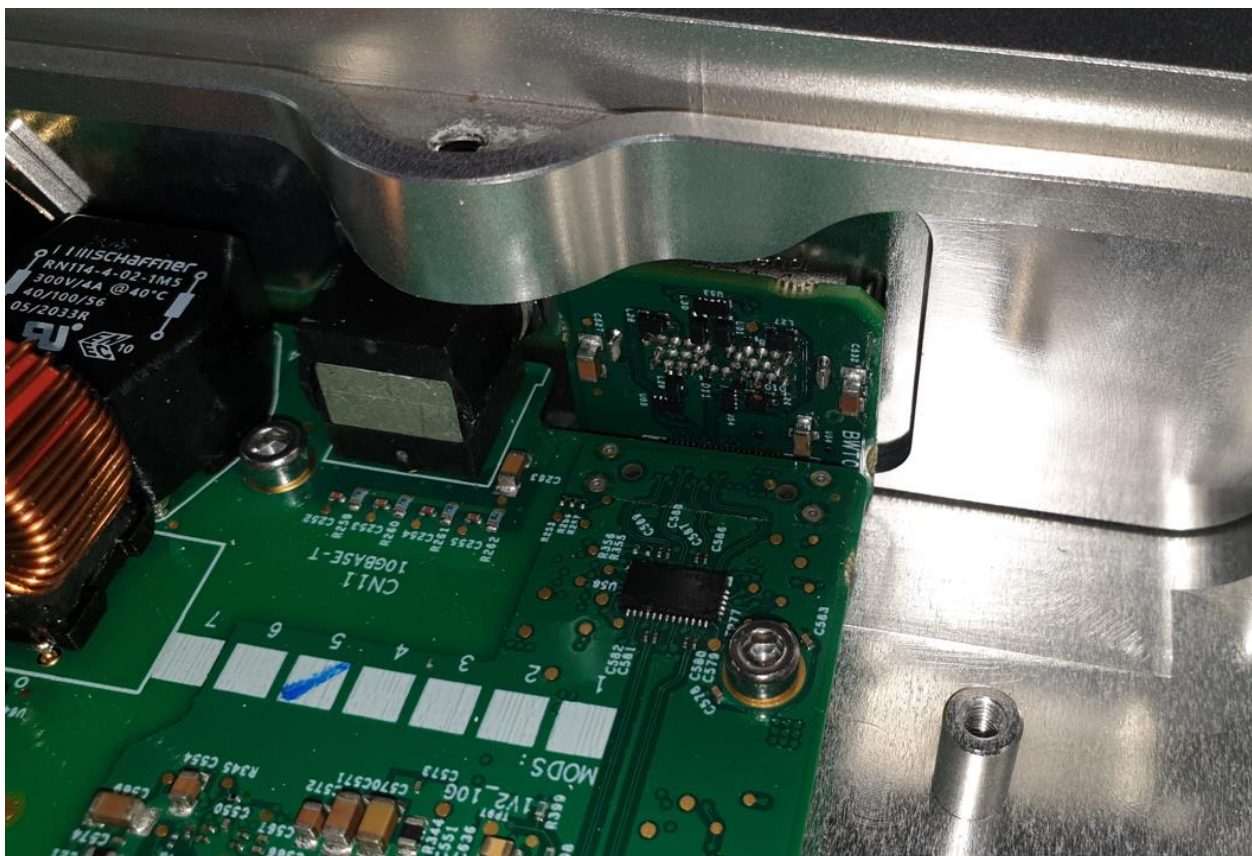


Figure 3 – Inside Back cover of TN001XC showing the BWT062 small connector Board for the cable

3. TN201SP Internal Photographs

3.1 Inside the bottom cover showing the Modem board



Figure 4 – Modem board top view in the unit



Figure 5 – Modem board bottom view

The bottom view shows the Radio module connectors at each end.

3.2 Representation of Modem board and Radio modules connected

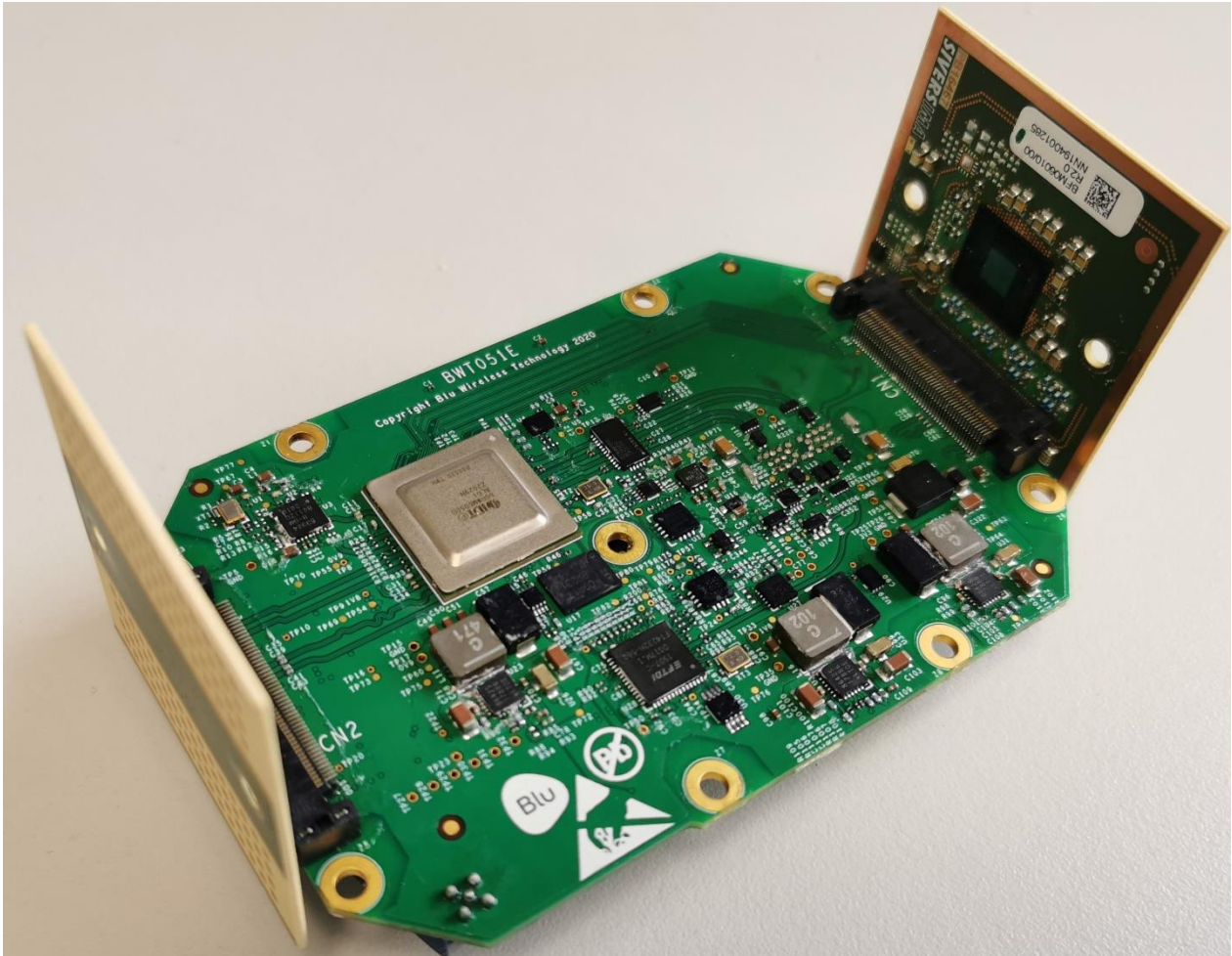


Figure 6 – Representation of both Radio modules connected to BWT051 Modem board

3.3 Radio Module antenna view

The radio module with:

- TX antenna array elements shown in 16x4 arrangement.
- RX antenna array elements shown in 16x4 arrangement.

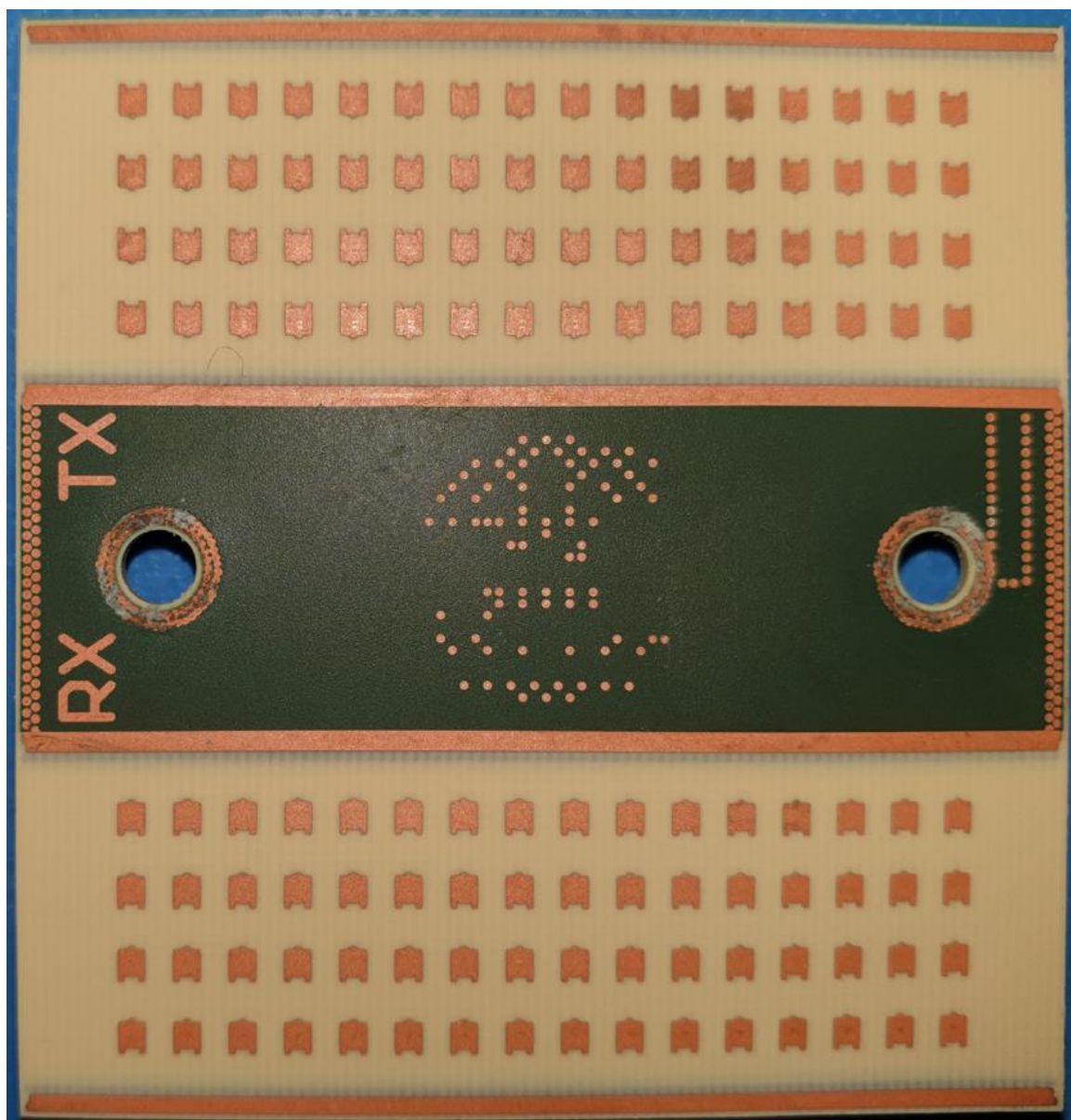


Figure 7 – Radio Module showing the antenna elements

3.4 Radio Module rear view



Figure 8 – Radio Module rear view

3.5 GPS Antenna

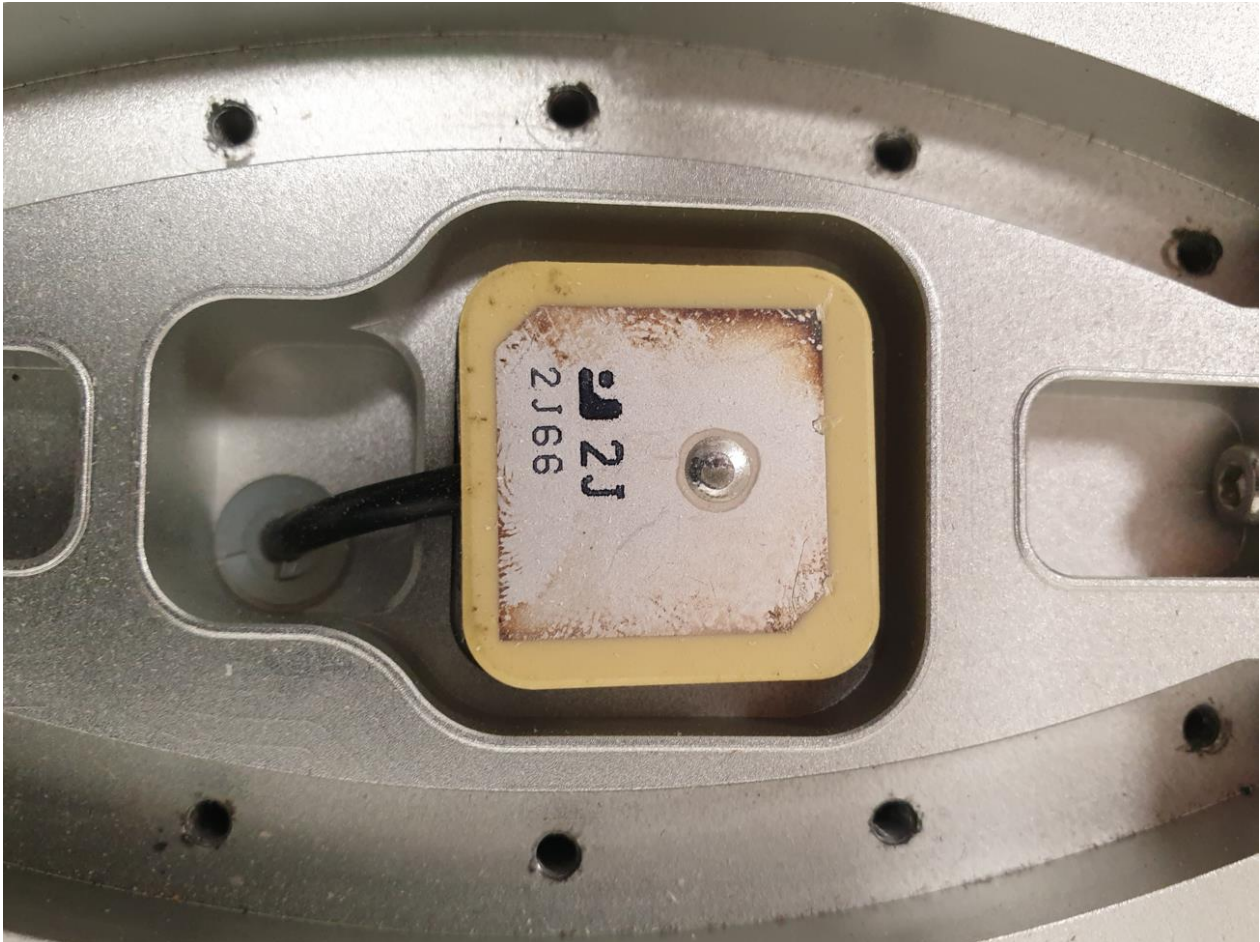


Figure 9 – GPS Antenna

4. TNCAB2B Photographs



Figure 10 – Cable assembly that connects the TN001XC to the TN201SP

END