



Connect Tech Inc.

Embedded Computing Experts

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Product Change Notification

MSG094 LTE Antenna Polarity

PCN Number:	CTIU-00058
Revision:	0.00
Issue Date:	2023-03-16
Effective Date:	2023-03-16

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1 Product Identification

1.1 Product Data

	Previous Version	New Version
Product Name	Rudi-NX, Rudi-AGX, LTE North America Antenna	Rudi-NX, Rudi-AGX, LTE North America Antenna
Part Numbers	MSG094	MSG094
Hardware Revision	N/A	N/A

2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input checked="" type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input type="checkbox"/>	Datasheet / Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input type="checkbox"/>	Other	<input type="checkbox"/>
Equipment	<input type="checkbox"/>		

The Rudi-NX (ESG602-XX) and Rudi-AGX (ESG610-XX) systems use an SMA-RP connector for the LTE antenna. The current MSG094 LTE antenna has a standard SMA connector which is not compatible with the SMA-RP connector.

All new MSG094 LTE antennas will have the compatible SMA-RP connector instead of the standard SMA connector.



Figure 1: Rudi-NX (ESG602-XX) SMA-RP Female Antenna Connector



Figure 2: Previous MSG094 LTE Antenna
Standard SMA Male Connector



Figure 3: New MSG094 LTE Antenna
SMA-RP Male Connector

Below is an overview on SMA and Reverse Polarity SMA connectors.



Figure 4: SMA and Reverse Polarity SMA Connector Overview

3 Impact of change (positive or negative) on fit, form, function & reliability

3.1 Quality and Reliability

There is no change to quality or reliability.

3.2 Software Compatibility

There is no change to software Compatibility.

3.3 Hardware Compatibility

Electrically, there is no difference between the two antennas.

3.4 Mechanical Compatibility

The MSG094 was designated to be used with our ESG602-XX (Rudi-NX) and ESG610-XX (Rudi-AGX) SKUs. Each of these SKUs use an SMA-RP female antenna connector for the LTE antenna. The previous MSG094 uses a standard SMA male connector which is not compatible with the SMA-RP female connector. Future MSG094 products will use the use the compatible SMA-RP male connector antenna.

4 Product / Revision Discontinuation

MSG094 will now only contain SMA-RP male antennas to match compatibility with our Rudi-NX and Rudi-AGX SKUs.

5 Contact Information

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