Environment Information Technology Pty Ltd
ABN 23 116 474 634

Unit 1, 19 Kays Lane
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Phone (02) 66283400
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Products affected **Datatenna Transmitter**
Datatenna Repeater
RDC Transmitter
RDC Repeater

Serial numbers All

Action required None – Advisory only

Reason for notice Provides information on compatibility issues with different radio modules fitted to these devices.

Notes Prior to December 2004, EIT used a 10mW Radiometrix transmitter chip in Datatennas and RDC units. These radios were capable of transmitting about 1km in good line-of-sight conditions.

Subsequent to that time, the chip was upgraded to a 25mw Genesis GT1. The latter has vastly increased range, up to 4km in good line-of-sight conditions.

While there is no defined cut off point for the old version, a general rule of thumb is that units below serial number 28450, or without a barcoded number should be fitted with the old radio. Any barcoded units should be fitted with the high power Genesis module.

There are significant issues to be aware of when a mixture of these modules may exist within a telemetry system.

Resolution Compatibility Issues:

Repeater units contain a Tx module and a Rx module.

Old style Tx modules may co-exist in systems with new style Tx modules and/or new style Rx modules as follows:

Version	Old Tx	Old Rx	New Tx	New Rx
Old Tx	-	√	√	√
Old Rx	√	-	√**	√
New Tx	√	√**	-	√
New Rx	√	√	√	-

** Caution should be taken to ensure new style transmitters are not used within 20 metres of an old style Rx chip. Doing so can result in data corruption.

Datatennas fitted with new Rx modules may be used in conjunction with Series 2 IPC's (Atmel) at firmware version 4.37 or later. They may not be used in conjunction with Series 1 IPC's (PIC).

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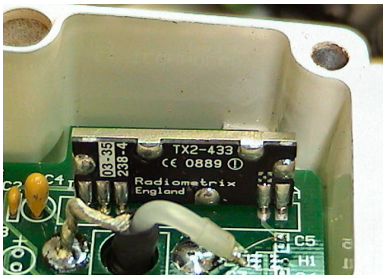
Identifying module type:

Old style serial number, generally fitted with old style Radiometrix module.

New barcoded serial number, generally fitted with new style Genesis module.

If uncertainty exists, it is possible to identify the chip by unscrewing the Datatenna or RDC base and checking the chip visually.

Low power Radiometrix module



High power Genesis module