

PCN – Product Change Notification

Change:	MA.104.B
Date:	22nd August 2011
Author	AD

Affected Products

Model# (Old)	Model# (New)	Part Number(Old)	Part Number (New)
MA.104.B	MA.104.C	MA.104.B.A301111.B301111	MA.104.C.A301111.B301111

Type of Change

- Hardware Modification
 Others
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Description of Change

A Front-end SAW Filter has been added to the GPS Active Patch Module. The reasons are:

1. With more compact wireless devices, the cellular module and antenna are in closer proximity to the GPS module. GSM for example uses power levels up to 2W (+33dBm). The absolute maximum power input at the GPS receiver is typically -5dBm. In such devices an additional input filter is needed on the GPS side to prevent the high energy being radiated from the cellular system getting into the GPS. It also helps protect the LNA in the GPS antenna from burnout.
2. Assists in preventing in-band jamming. In band jamming occurs if there is another signal whose frequency is very close to the GPS frequency of 1575MHz. Such jamming signals are typically caused by harmonics from displays, micro-controller, bus systems, etc.
3. Assists in preventing out of band jamming. Out of band jamming is typically caused by signal frequencies that are different from the GPS carrier. The sources are usually wireless communication systems such as GSM, CDMA, WCDMA, Wi-Fi, BT, etc. These filters limit disruptive emissions below the noise floor near the GPS frequency.

Schedule

The Estimated Transition Date is the forecast date at which customers should be prepared to receive the changed product with the New Type Number. The exact date depends on Taoglas stock depletion and may be affected by fluctuations in supply and demand. Taoglas will continue to ship the Old Type Number until inventory has been depleted. This may result in product with the Old Type Number being shipped to customers beyond the forecast Estimated Transition Date.

Forecast Estimated Transition Date

August 25th, 2011