



Release Notes 3.20.00

The following is a list of features, enhancements, and fixes implemented in the latest Tempest® Wireless firmware release:

Firmware Details:

	DSP		PIC (Base Only)
Version:	3.20.00		3.20.00
Release Date:	February 25, 2015		February 25, 2015
Affected Models:	TMB44524INCC	TMR42524INCC	TMB44524INCC
	TMB22524INCC	TMR22524INCC	TMB22524INCC
	TMB44524INEU	TMR42524INEU	TMB44524INEU
	TMB22524INEU	TMR22524INEU	TMB22524INEU
	TMB44509INCC	TMR42509INCC	TMB44509INCC
	TMB22509INCC	TMR22509INCC	TMB22509INCC
		TMR2MS24INCC	

Note: All Tempest models (regardless of frequency or region) will utilize the same 3.20.00 firmware; however, once loaded onto Tempest models ending with "EU", the firmware version will be displayed as "3.20.00EU". In order to maintain ETSI compliance, previous versions of firmware are prevented from being loaded onto Tempest models ending with "EU". Non-EU models are non-compliant with ETSI standards.

New Enhancements:

In response to the recent changes in the European Telecommunications Standards Institute (ETSI) EN 300 328 V1.8.1 standards, this latest version of Tempest firmware has been released to incorporate Adaptive Frequency Hopping utilizing Listen Before Transmit (LBT) technology. Going forward, there will be two sets of Tempest SKUs: one for European Union (CE) use and one for everywhere else. The European SKUs will carry the CE mark and will incorporate LBT in a full-time capacity, therefore meeting all requirements of the EN 300 328 V1.8.1 directive. The non-European SKUs will not carry the CE mark and will not employ LBT. As such, the non-European SKUs do not meet the requirements of EN 300 328 V1.8.1 and may not be used in countries that require the CE mark.

Tempest's specific implementation of Adaptive Frequency Hopping with LBT maintains satisfactory operational range, audio quality, and RF robustness in a wide variety of RF conditions.

Users may notice a slight reduction in operational range under some extreme RF conditions, but even in these cases, range and operational functionality will not be substantially reduced. In most cases, even in the face of reasonable in-band RF interference, most users will not notice the difference between EN 300 328 V1.8.1 compliant and non-compliant equipment.

It is not recommend that EU and non-EU SKUs be used together in the same Tempest system in any European Union location. Non-EU SKUs are not EN 300 328 V1.8.1 compliant, even if used with EU SKUs that are EN 300 328 V1.8.1 compliant. In addition, EU SKUs may, in some cases, not operate in an EN 300 328 V1.8.1 compliant manner when used with certain non-EU SKUs. Therefore, a mixed system configuration of EU and non-EU SKUs is not a supported mode of operation.

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