

Around - Operational Description

General:

Around is a voice activated speakerphone comprised from two units:

Base Unit – This unit connects to an external power supply and to the PSTN. It contains the voice recognition processor, audio circuits and an RF stage described later in this document.

Cordless handset – This unit is battery powered and used to conduct calls through the base unit. It contains a processor, audio circuits and the same RF stage as in the base unit.

Use:

Indoors use only. The user can use the base unit or the cordless handset to place and answer calls. From the base unit calls can be placed and answered using only voice commands.

RF stage:

The RF stage of the both the base unit and the cordless handset is the same and will be described here.

The RF stage is based on the PurePath technology from Texas Instruments. It is a 2.4Ghz radio technology used for transferring high quality digital audio data. Two main components comprise an RF stage:

1. CC8520 – this is a System On Chip IC which is responsible for the RF network management and data sending & receiving.
2. CC2590 – this is a 2.4Ghz front end IC.