RTX

TEAMENGAGE™ SOLUTIONS

INCREASE TEAM EFFICIENCY THROUGH
RELIABLE COMMUNICATION

BROCHURE

RTX TeamEngage™ is an advanced team intercom solution for industries where reliable communication, despite environment, is paramount.

ADVANCED TEAM INTERCOM SOLUTIONS

Solving complex tasks or handling critical situations often depends on direct, clear, and reliable communication. TeamEngage™ is a wireless communication solution for scenarios where direct and reliable two-way communication or broadcasting of information is critical for getting the job done.

By providing excellent audio and radio performance, the TeamEngage solution offers high-quality communication for both portable and fixed systems which also adds security for the individual. This means that TeamEngage fits your needs, whether your team is working within a confined geographical area or a wide area having the team split up.

TeamEngage solution is enabled on both the standard RTX1090 module and the RTX1090R1 variant. Small form factor modules designed for flexibility and durability to accommodate many different product implementations. So, whether the product is a belt pack, a safety helmet with built-in comms, or a headset, the modules fit the user's needs. The RTX1090R1 module is a variant with an extended temperature and vibration range. This makes it ideal for solutions used in outdoor and harsh environments.

KEY FEATURES

- *Ultra-resilient 1.9GHz radio with an extended range*

- *Outstanding audio quality with speech optimized audio codec for increased intelligibility*

- *Low power consumption for extended operation time*

- *Compliance for multiple regions supported*

BUILDS ON SMALL FORM FACTOR MODULE
RTX1090/RTX1090R1 module is the technology enabler for multiple RTX product families.

DEPLOYMENT OPTIONS

TeamEngage solution offers three deployment options: Dynamic, Singlecell, and Multicell - each providing a different system depending on the user scenario.

TEAMENGAGE DYNAMIC

TeamEngage Dynamic is a self-establishing intercom system that works independently and without geographical boundaries. Teams can split up into smaller groups and establish their own communication groups ad hoc.

This novel solution removes the challenges of two-way radios and traditional star topology networks, which requires the users to roam around fixed base stations.

For more information, please refer to the product sheet on TeamEngage Dynamic.
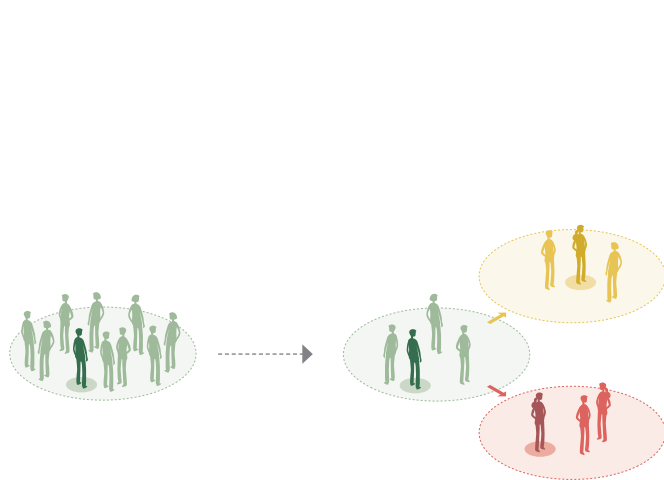

Illustration 1: TeamEngage Dynamic group behaviour

TEAMENGAGE SINGLE-
AND MULTICELL

For fixed geographical areas, the TeamEngage Singlecell solution provides group intercom solution for multiple users.

The solution allows up to 14 or 15 simultaneous talkers (+ multiple listeners) depending on the chosen configuration. Additional users can optionally be assigned as listen only.
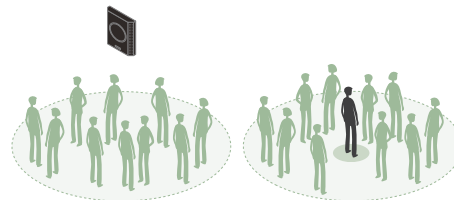

Illustration 2: TeamEngage Singlecell with fixed or portable base station

For larger coverage and more users, TeamEngage Multicell offers a group intercom solution with two or more base stations, where each base station supports the same number of talkers as the fixed Singlecell base station.

For more information, please refer to the product sheet on TeamEngage Single- and Multicell.
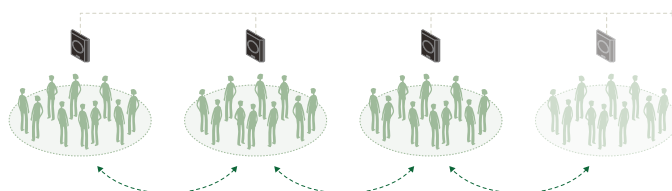

Illustration 3: Expandable TeamEngage Multicell system with roaming between cells

TECHNOLOGY AND MANUFACTURING

OUTSTANDING AUDIO QUALITY

TeamEngage utilizes, per default, wideband audio with a frequency range of 50 to 7kHz, thus provides a much wider frequency range compared to other intercom solutions in the market. This ability makes TeamEngage stand out as delivering outstanding voice clarity, even when operating in noisy and/or rugged environments. Because of these capabilities, TeamEngage emerges as a breakthrough when compared to the team intercom systems available today.
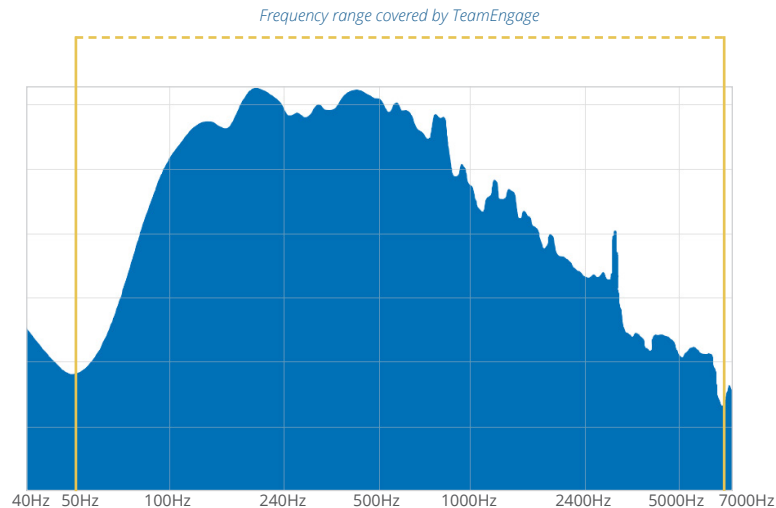
Frequency range covered by TeamEngage

Illustration 4: Average spectrum of the human voice

MANUFACTURING INTEGRATION

The TeamEngage software will be delivered for deployment on the RTX1090 module. This provides several options for commercialization and hardware and software customization, securing your design language and product signature.

By deploying the highly configurable TeamEngage solution, you can focus on the implementation of your product signatures without having to become an expert in radio technology. Furthermore, with our global sourcing from key long-lasting suppliers, we can ensure your production is geared up for the demand.

By choosing RTX as a technology or ODM partner, you gain technologies that are field tested and proven by professionals. It enables you to tap into the present and future RTX radio and audio technologies and security.

CREATING YOUR OWN PRODUCT

RTX can provide a reference design which will provide the foundation for your own product. This will include the integration of the module itself, the host processor, and other adjunct peripherals, such as Bluetooth Low Energy (BLE) and Bluetooth Classic. To accommodate easy integration, we do provide a product interface freeing you from being a technology specialist.

EVALUATION KIT (EVK)

For early evaluation of your own product idea, RTX can provide an EVK to quickly jump-start your product development. This allows the connection from the EVK to your host processor, eliminating the need to first create a design around the module.

PRODUCTION AND COMMERCIALIZATION

RTX can undertake the production and commercialization of the product to be brought to market. RTX manufactures over 1 million products a year with a stellar record of almost zero manufacturing defects. From conception to commercialization, RTX can help bring products to market quickly and efficiently.