MANET TRAINING OVERVIEW

TECHNOLOGY FOR EXTREME ENVIRONMENTS

COMPUTING BATTERIES COMMUNICATIONS ANTENNAS IMAGING

EMBEDDED MODULE INTEGRATION COURSE (EMIC) 8 HOURS

Course Overview

The Wave Relay® Embedded Module Integration Course is an 8-hour course focused on building skills and knowledge of integrating the Wave Relay® embedded module onto customer platforms.

The course spans one day and is conducted at Steatite HQ or at the customer's location. It consists of 8 hours of classroom instruction with one of Steatite's subject matter experts. The Embedded Module Integration Course is comprised of engineering lectures, practical exercises and technical integration discussions designed to reinforce technical concepts while exploring both integration flexibilities as well as limitations and cautions. The course is designed and presented by Steatite technical trainers with applicable knowledge in a tactical environment and are SMEs on the equipment and the functionality of MANETs.

The Wave Relay® Embedded Module Integration Course (EMIC) is structured in a manner that begins with general features and common tasks independent of integration platform, whether UAV, UGV or other field applications. Platform-specific details are covered later in the course in break-out sessions with design engineers.

Learning Objectives

- Familiarisation with Embedded Module Kit
- Distinguish capability distinctions among MPU5, Embedded Module and Embedded Module-Lite
- Knowledge of various means of combining embedded modules with RF card placements and types, including advantages and limitations
- Understanding of the 'Bathtub' concept and approach to integration
- Knowledge of I/O interface technical details, such as RS-232, USB (including USB On-The-Go configurations and cautions), HDMI Video-In, 3G-SDI Video-In, GPS, Ethernet and MIC interfaces.
- Installing and executing Android apps on the Embedded Module platform
- Wave Relay Management Interface navigation and configuration, including settings most relied upon specifically in an embedded environment.
- Understanding special heat dissipation requirements and the proper installation (and fabrication) of heat sinks.
- Understanding power requirements for primary input as well as auxiliary inputs (heat sink fan power provision)
- Best practices of MANET network design considering Embedded Module integrations