MPRF Logger FW Rev 005 Release Notes

Modifications since prior release Rev 004
02-March-2014
K. Heinrich

1. Fix issue associated with IR communication failures due to Radio communication status LED interference during communication with the logger. During MPRF programming, repeats attempts is set to zero.

Release History:

MPRF Logger FW Rev 004 Release Notes

Modifications since prior release Rev 002
10-Feb-2014
D. Weerstra

Note: Rev 003 was a beta/prototype version that was never released.

1. Modifications for Very Large Networks, mostly affecting Repeater and Host functions.
   - 1.1 Receive Signal dB logging in Hosts and Repeaters, with reporting to software, allows for RF path optimization.
   - 1.2 RF Command to allow re-targeting RF path to optimum receiver.
   - 1.3 Re-initialize Host or Repeater radio only at interval, do not re-initialize after "bad" comm. events (that are expected on VLNs); saves 50 mS bandwith.
   - 1.4 Add Repeater configuration setting (Op Type 16 or 17) for ability to lock repeater such that it either repeats all devices or repeats only loggers.
2. Fix re-boot bug that might randomly leave logger in a host mode (with no RF comm. functionality).
3. Modify RF data retrieval command to allow multiple data block reads (accelerates RF missing data retrieval).
4. Resolve issues with MPRF loggers operating with no RF and logging interval = 1 second (either inability to recover data after reset, or unexpected interval change to 9 seconds).
5. Change unused pin/ports to input state (reduces chances of high current draw if PCB is contaminated).
6. Add compatibility for either Radio Chip MC13192 (current, but obsolete) or MC13202 (new).
7. Make LEDs light up after RF transmission is complete (not during transmission); minimizes peak current draw.
8. Disable LED use during both very hot (> CCA limit) or very cold (< Low Temp limit) to minimize battery demands.
9. Fix issue where microprocessor did not sleep during sample acquisition (minimize current draw and stabilize power supply).
10. Improve "Capture via RF" function for repeaters.