

CML Microcircuits and Cambridge Consultants present

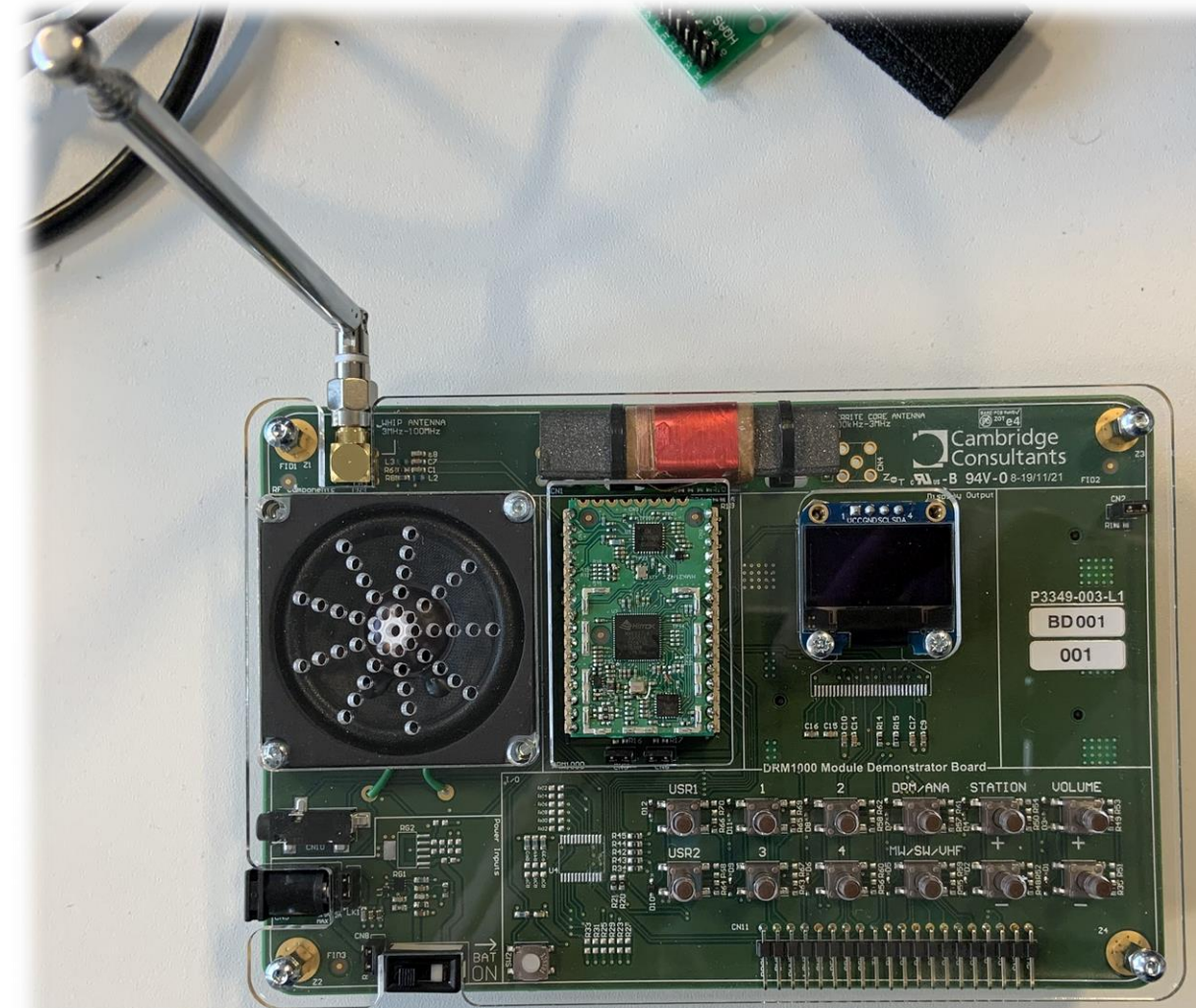
DRM1000 – a simple low-cost radio module

- **Low module cost:** US\$10.00 in quantity
- **Fully tested module** for easy build into various radio designs, well within capability of manufacturers in any country
 - No software effort required to implement a basic radio
 - No host microcontroller required
 - Supports LF, MF, HF, VHF and DRM, AM, FM
- **Low power design**
 - 30+ hours from 3 AA cells (assuming 100mW to speaker)
 - Or rechargeable with solar or even hand-cranked charging
- Targeted **anywhere** where a service exists or is planned
 - Initially at India & Pakistan, Asia, Africa, South America
 - But will be sold – and usable – anywhere



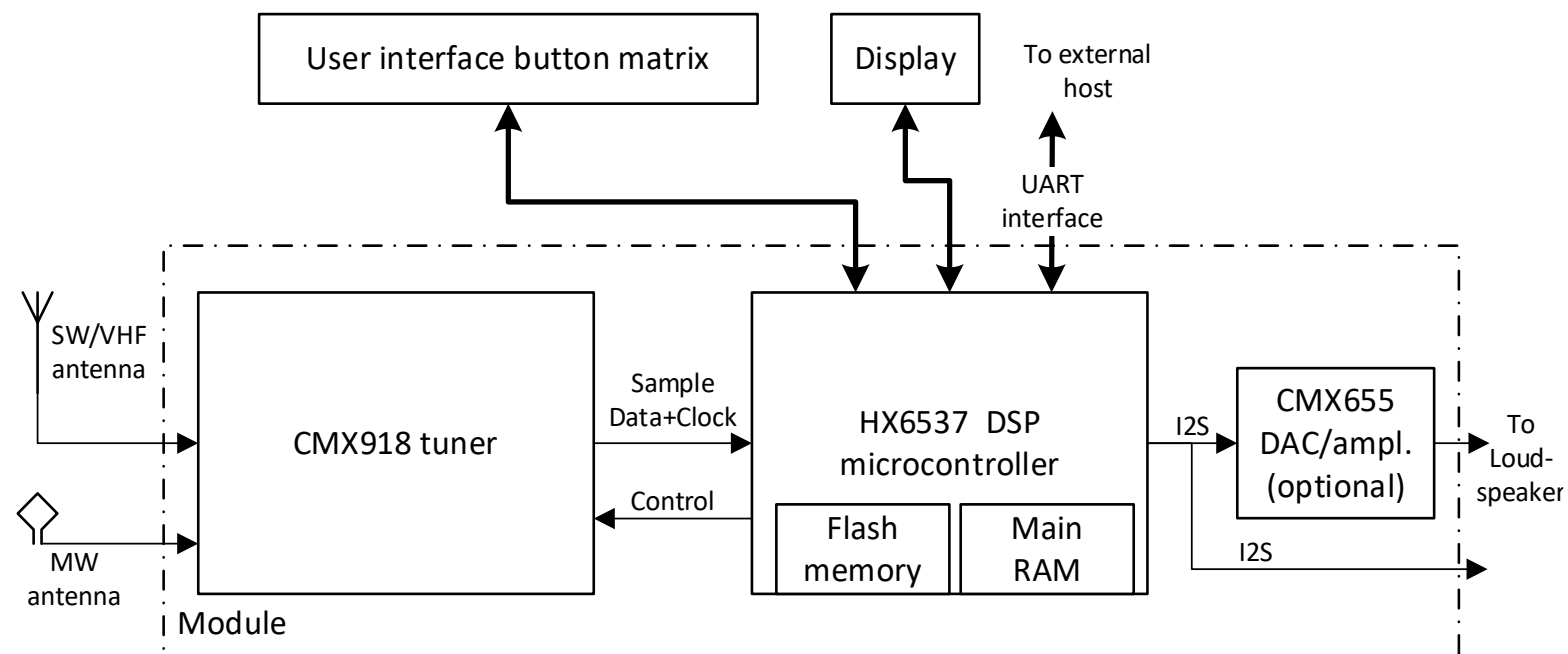
DRM1000 opens up the low-cost end of the DRM market

- Evaluation board shown demonstrates
 - User interface based on push-buttons
 - Small low-cost display
 - MW, SW and VHF antennas
 - Complete radio requiring no external processor
 - 'Antenna to speaker' solution
 - Only active components are display and power supply regulator
- DRM1000 also supports a serial control and data interface
 - Allows use of an external host
 - Can deliver data services for external processing / display



DRM1000 is a complete radio

- Includes all RF and AF components except for antennas and speaker
- Runs from 3.1V supply (suitable for primary or LiPo secondary cells)
- Price includes all software
- Price includes AAC licence
 - No separate licence agreement required to build radios
- Two user interface options
 - Button matrix and display
 - UART interface to external host
- Audio output line level, speaker or I2S digital



Current project status

- ✓ CMX918 tuner-front end ASIC samples have arrived from fab
- ✓ All ASIC features tested and working
- ✓ Initial build of modules complete
- ✓ Initial build of evaluation boards complete
- Module bring-up in progress
- Full integration to start immediately after bring-up
- ✓ DRM Consortium and ETSI tests passed on DRM modem
- Integration tests continue with
 - a broadcaster's MDI stream and local transmitter, and
 - signal generators fed from off-air IQ samples
- Expected launch 1Q 2022

