

General:

With addition in the Radiocommunications LIPD Class Licence 2000 in July 2009 of *In-store DAB repeater transmitters* allowing the installation of such devices, guidance for the installation of DAB+ transmitters into Retail stores is in order to assist in the successful demonstration of DAB+ Radios.

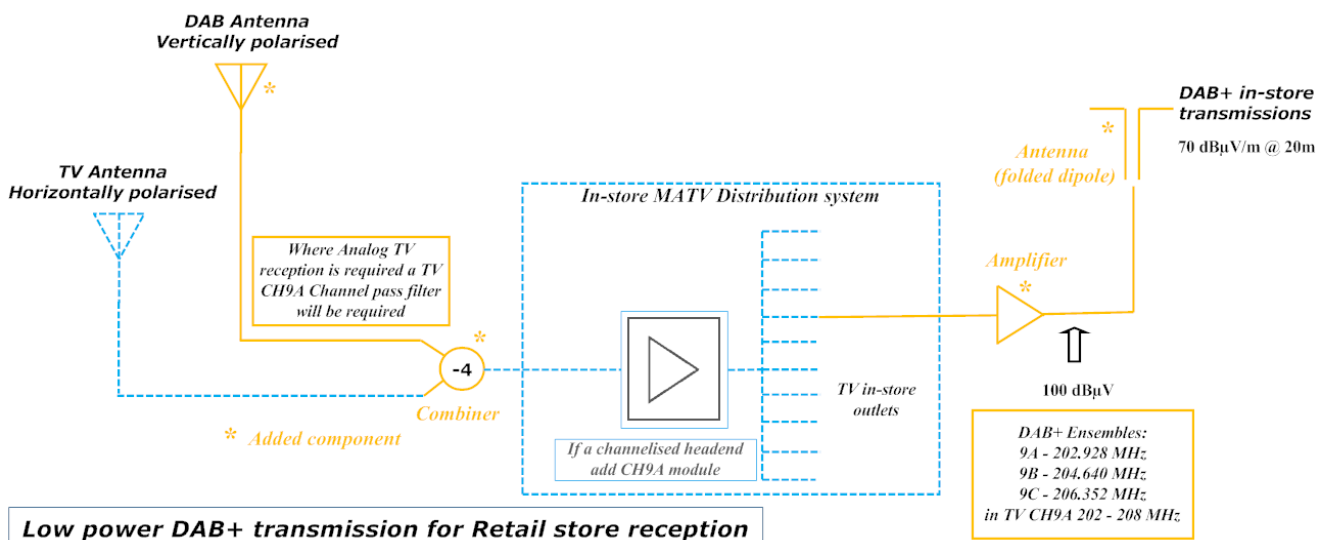
The information offered below is intended for the guidance of TV system installers.

TV distribution system modification:

The current Retail store TV distribution system that is for the primary purpose of Digital TV distribution within the retail sales areas can be modified to carry DAB+ with the addition of a number of components as described below:

Additional components:

1. **DAB Receive antenna** – vertically polarised – mounted at same location as TV antenna. Recommended type: *Hills DY10 6-12* or similar.
2. **Combiner** (reversed 2 way splitter) – inserted for combining of TV antenna and DAB antenna.
3. **Amplifier** – high quality Headend or distribution amplifier – Recommended type: *Hills Maxilink 40* or similar.
4. **Antenna** – mounted on wall facing and near DAB receiver sales area – Recommended type: *Hills DY4 6-12* folded dipole section only or similar.



Level requirements:

The system should be adjusted to provide an input to the Antenna a level (channel power) per Ensemble of around 100dBµV (or ~104dBµV across TV CH9A). This will result in a Field Strength of 70dBµV/m @ 20m from the Antenna which is more than ample to provide reliable DAB+ reception.