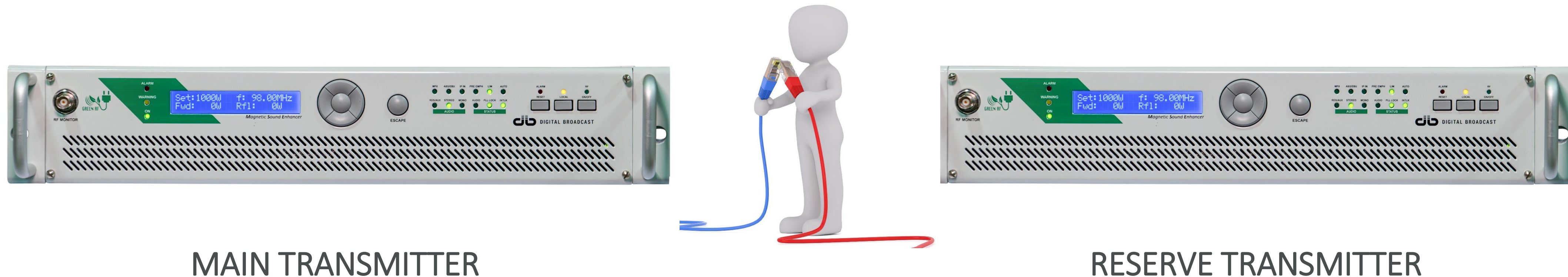




1+1 and N+1 FM Redundant Systems

Even the most reliable FM transmitter can go off-air sometimes and this is a big and critical problem in FM stations.

Many customers think that the best way to avoid this problem is to have one transmitter running and one additional transmitter available in the station and ready to be switched on in case of any need.



This solution to the problem implies to always have someone present at the station and ready to intervene, but this would cause additional costs and waste of time.

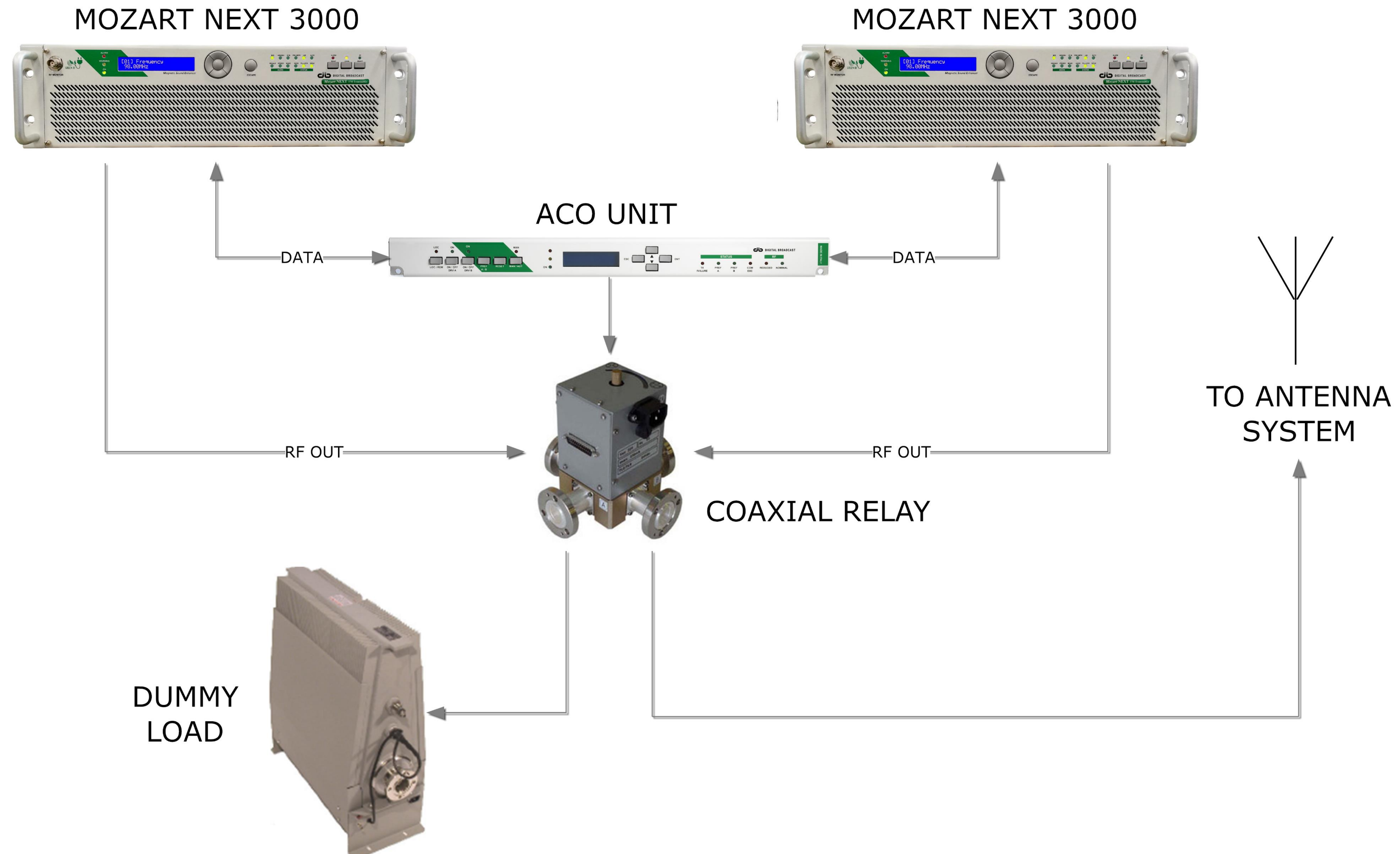
With the **ACO FM** changeover unit it is possible to easily prevent this problem thanks to its automatic switch between main and reserve units that will activate itself in case of need.

This is the optimal solution for FM stations, especially for those ones that need to be on-air 24/7 and where no interruption of transmissions is tolerated. When the main transmitter fails, the ACO FM unit automatically detects the problem and switches to the reserve transmitter.

Based on customer requirements, there is the possibility to have systems with 3-ports relay (one transmitter connected to the antenna system and the other one in stand-by) or 4-ports relay (one transmitter connected to the antenna system and the other one on dummy load in order to give the possibility to test and repair the faulty unit more easily).



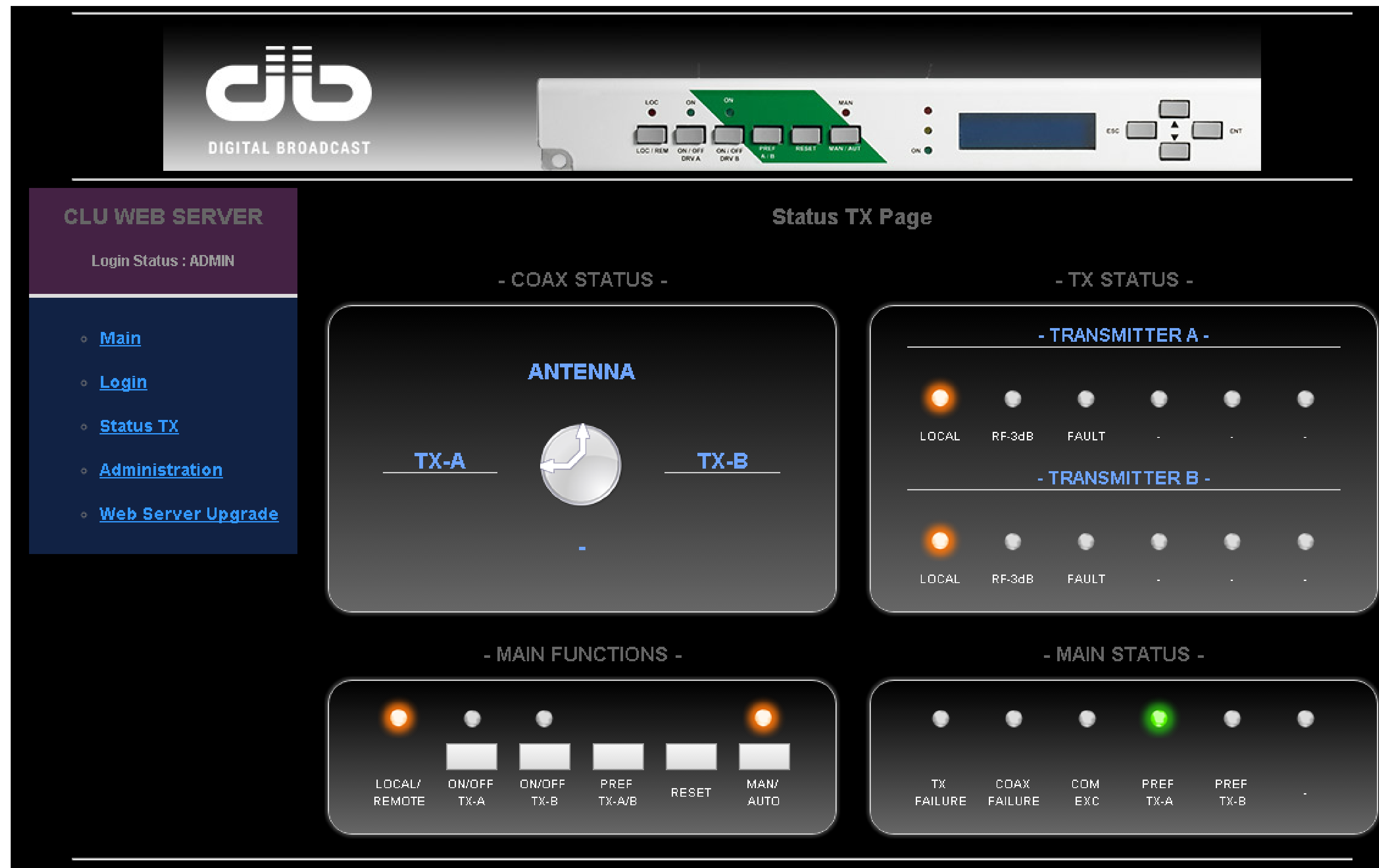
1+1 SYSTEM BLOCK DIAGRAM





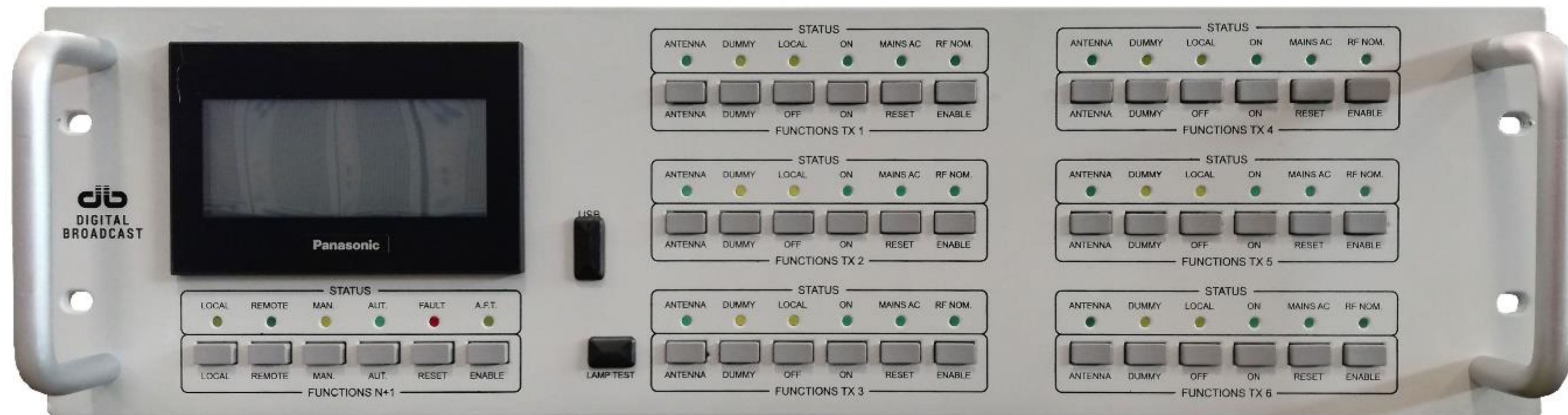
ACO FM for 1+1 systems is available with both an integrated RF switching up to 500W and an external switching for higher power levels.

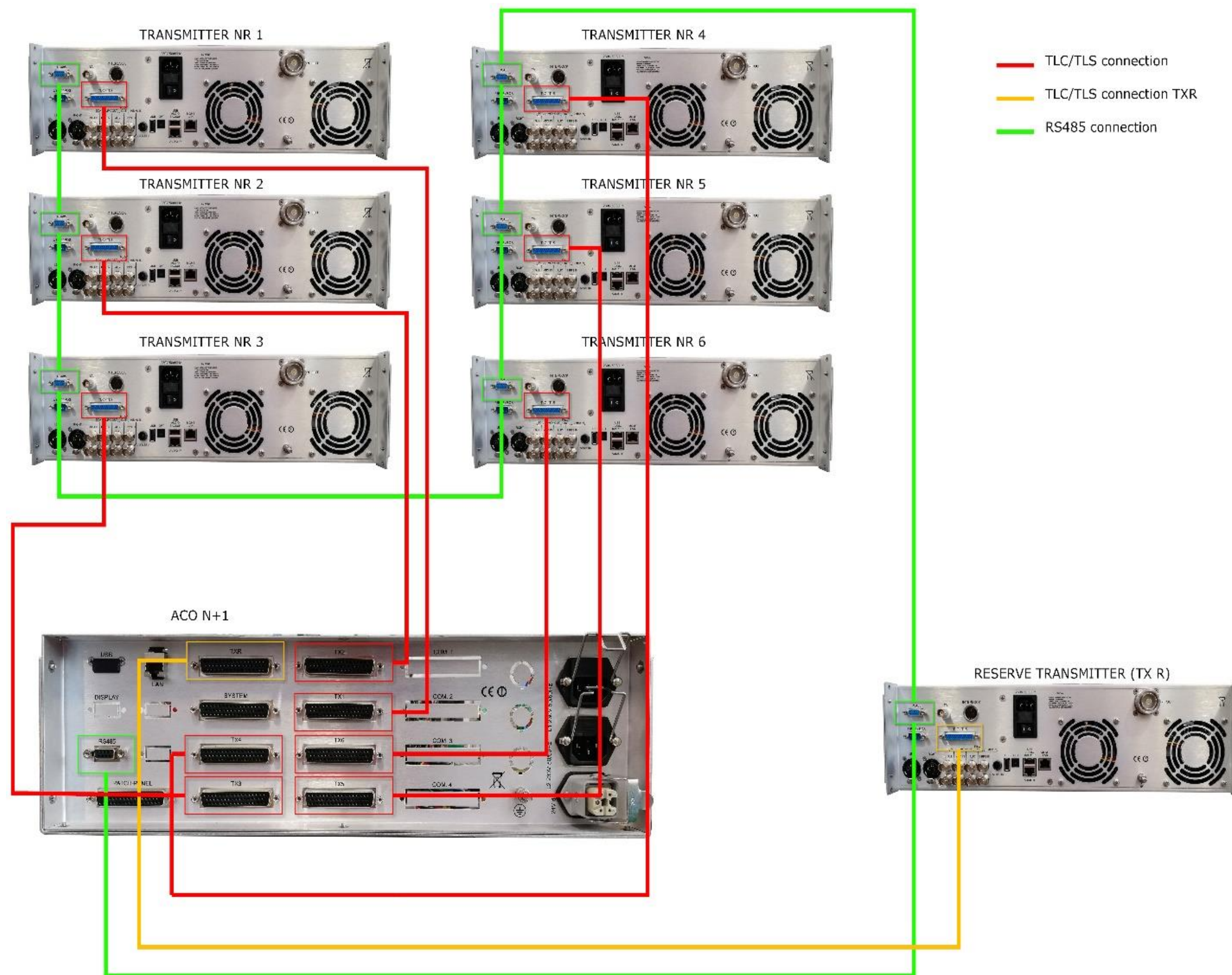
It is also possible to control the switching and check the status of the system by web interface (optional)



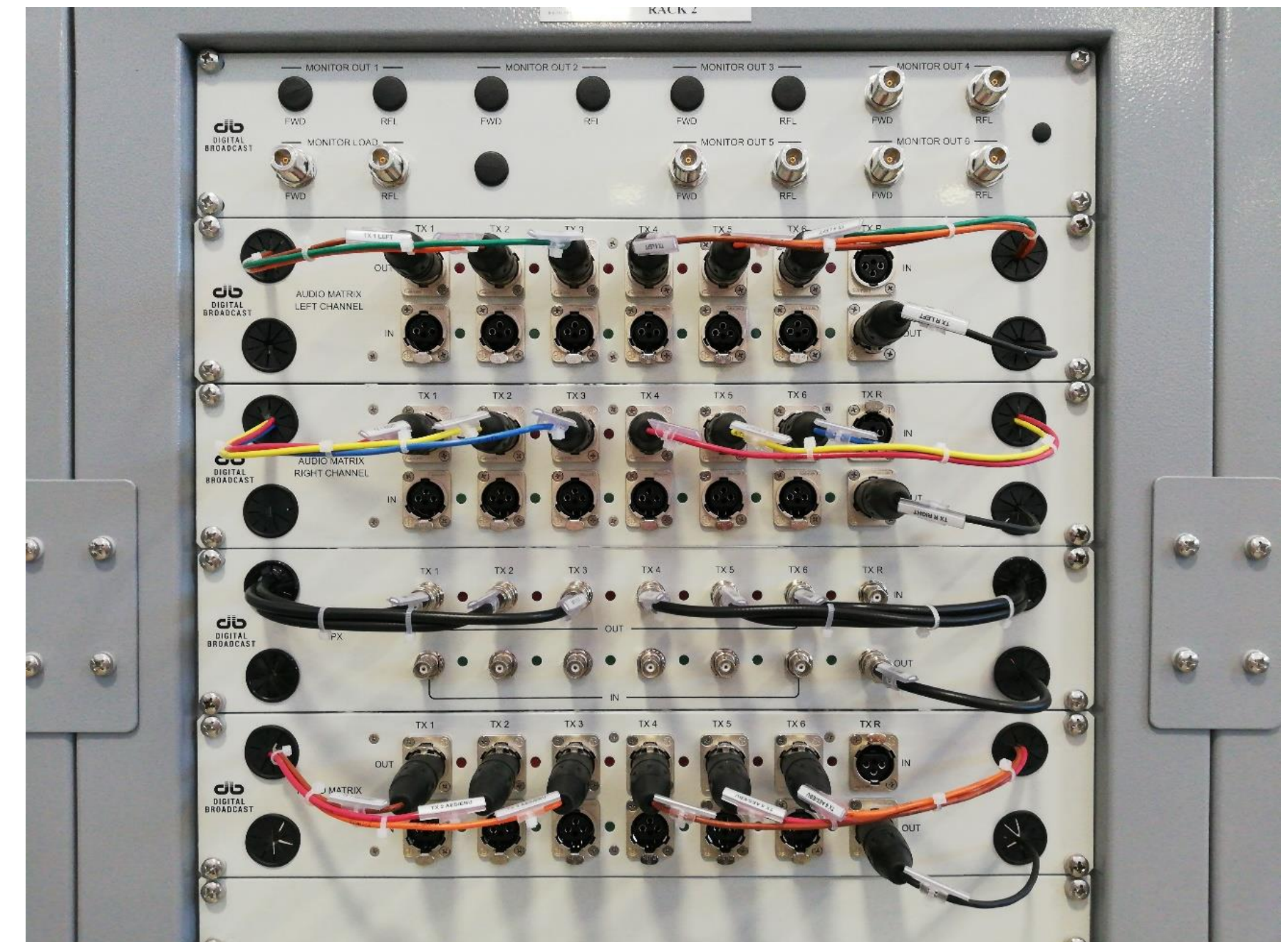
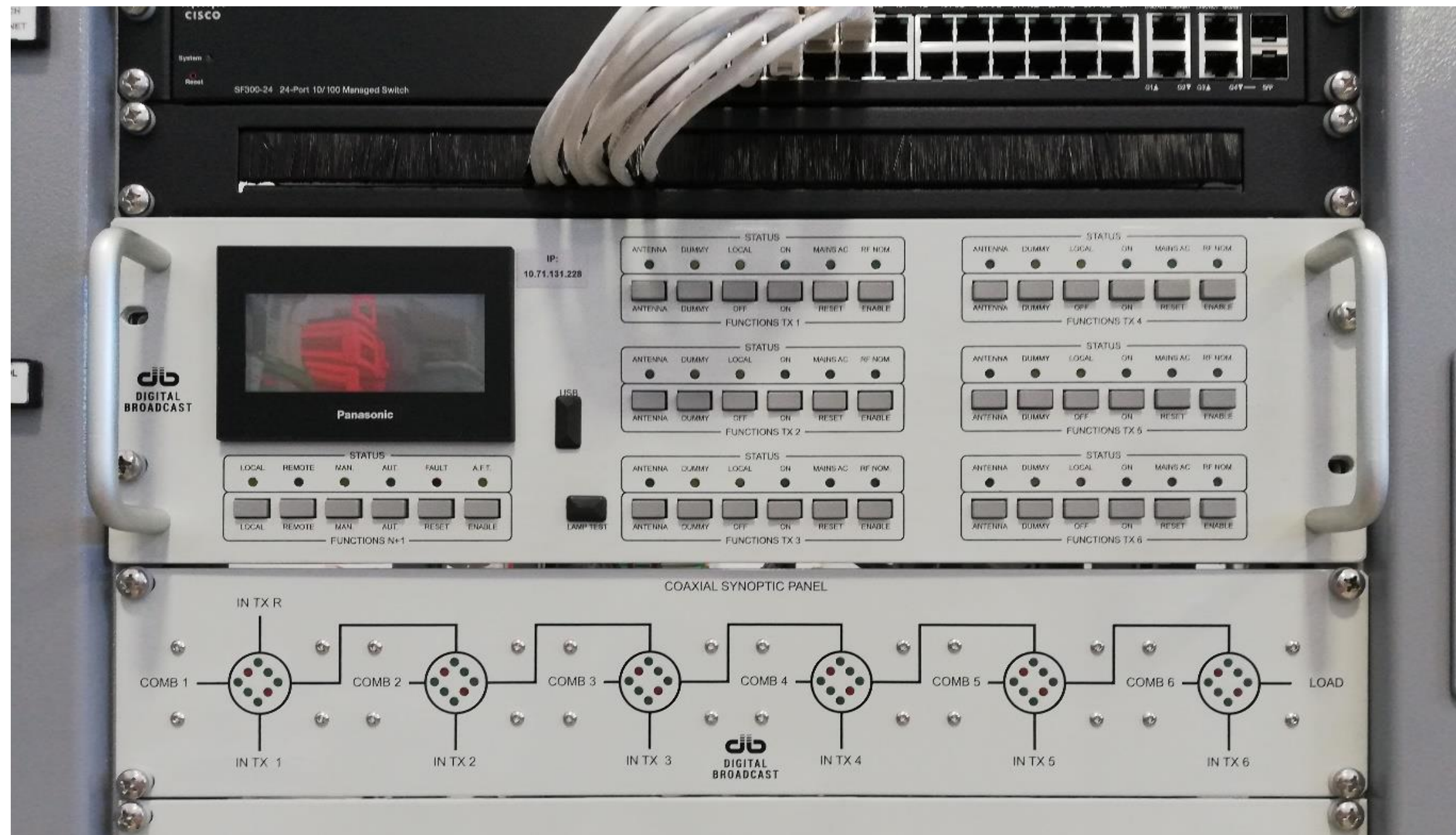
For large scale radio broadcasting it is necessary to provide a backup to the entire system with the possibility to change the configuration of the reserve transmitter depending on the defective main unit.

In this case the **ACO N+1** allows the monitoring of up to 6 FM transmitters simultaneously and gives the possibility to change configuration on reserve transmitter automatically.

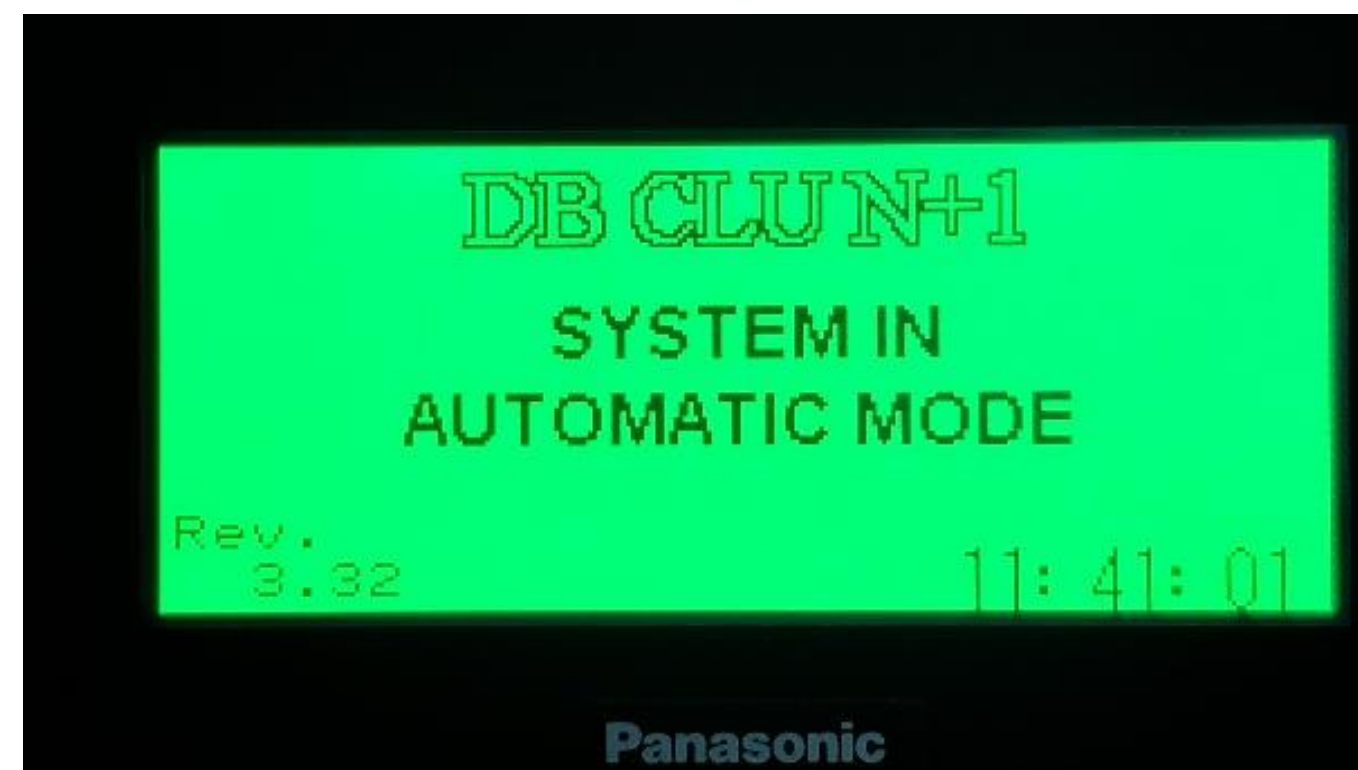




N+1 Control Logic Units allow to reduce the need of having multiple backup transmitters granting an automatic switch-over in case of failure and the automatic upload of the failed transmitter configuration on the reserve one for a system always at full power.



The touch screen display with different colors allows the technician to have a quick and clear view of the status of the system so that he can easily identify the failure and work on it immediately.



High redundancy, low off-air time: save costs, time and energy.
Ask DB more information on 1+1 and N+1 systems!





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