

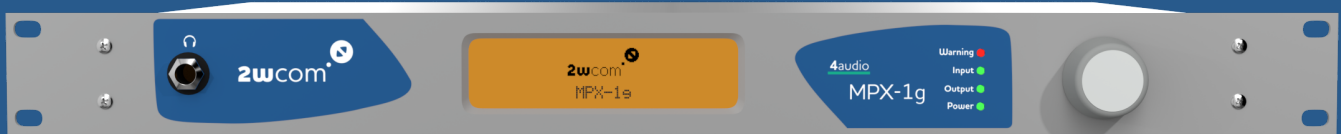
Application Sheet

FM-RDS Encoder

MPX-1g MPX Generator



FM-RDS Encoder



The MPX-1g supports the dynamic generation of a full-featured RDS signal. It integrates seamlessly in existing and new FM transmitter systems and can act as a stand-alone RDS Encoder.

Use case

The MPX-1g with RDS Encoder module complements systems, where FM-stereo coding is performed in a separate device:

- ▶ Setups with separate stereo encoders, for example existing 2wcom S02
- ▶ FM transmitters with integrated stereo encoder

The MPX-1g is functionally a full replacement of the 2wcom C02 and C04 RDS Encoders.

RDS Encoder Module

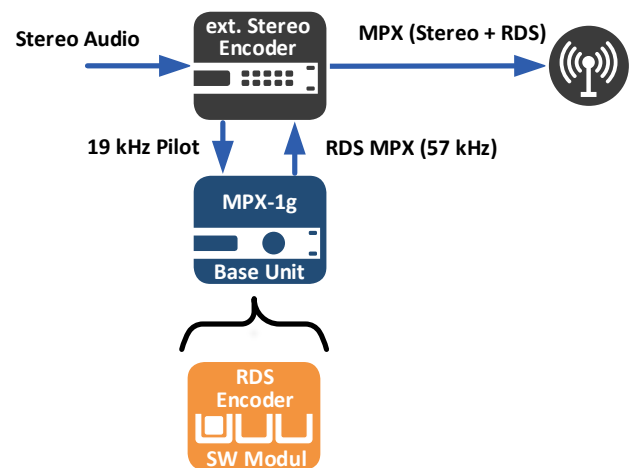
- ▶ RDS configuration and monitoring via Arcos Config or ARCOS Network for RDS encoder fleet
- ▶ RDS Standards: UECP 7.05 compliant, CENELEC EN 50067, IEC 62106.
- ▶ Built-in RDS decoder for live view
- ▶ Up to 16 data sets available.
- ▶ Scrolling PS to show messages of up to 160 characters

Pay as you grow

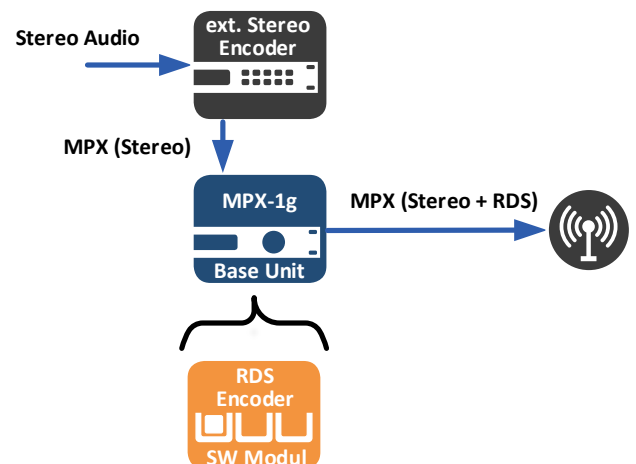
The MPX-1g combines modular elements to generate components of the whole FM-MPX composite signal depending on the use case. The device can be extended by additional software modules anytime, to meet growing requirements, for example:

- ▶ Full FM-Stereo and RDS Encoder
- ▶ MPX rebroadcast and audio/RDS substitution
- ▶ MPX and μ MPX distribution via IP or satellite
- ▶ FM rebroadcast from DAB+

For more information on the complete feature set, please refer to the data sheet of the [MPX-1g MPX Generator](#).



MPX-1g RDS Encoder synchronized to ext. 19 kHz pilot of a stereo encoder. MPX summation is performed by the stereo encoder (e.g. integrated in an FM transmitter)



MPX-1g RDS Encoder receiving an MPX stereo signal from a stereo encoder. MPX summation is performed by the RDS encoder and the full MPX forwarded to the transmitter.



Ordering Guide

Ordering code	Description
VER66001	Base unit MPX-1g with 1x internal power supply
VER66002	Base unit MPX-1g with 2x internal power supply (alternative to VER66001)
VER66003	Base unit MPX-1g with slot for 2x hot plug power supply 2x hot plug power supplies 230VAC / 48VDC already included (alternative to VER66001)
VER66010	Option MPX-1g/MPX-2ds: RDS coder RDS standards: UECP 7.05 compliant, CENELEC EN50067 RDS coder with UECP fully dynamic data via IP or serial interface. RDS configuration and monitoring via web interface, ARCOS Config (basic functions) or ARCOS Network for RDS encoder fleet. Up to 16 Datasets available. Scrolling PS to show messages of up to 160 characters. Built-in RDS decoder for live view / RDS Lab. Enables replacement of RDS data in the MPX/composite signal.