



Autosense Combiners

Simplifying Site
Configurations



KATHREIN

To enable the control of antenna line devices (ALDs) when using standard multi-band combiners in mobile communication networks, the combiners are fitted with integrated DC/AISG bypass circuits. Depending on the application, different bypass configurations are available. The correct bypass combination needs to be selected in order to ensure the functionality of the ALDs.

Kathrein's new autosense combiners simplify the selection of the correct combiner by automatically setting the correct bypass configuration, and thereby allowing for deployment in universal applications.

How does an autosense combiner work?

- Automatic detection of DC voltage on the input port
 - Short-circuit detection to acknowledge connected ALDs
 - DC/AISG signal is bypassed to connected ALDs
 - Allocation of the ALDs to the different base stations can be performed on a "first-in and first-out" basis (default) or in a customised fashion
-

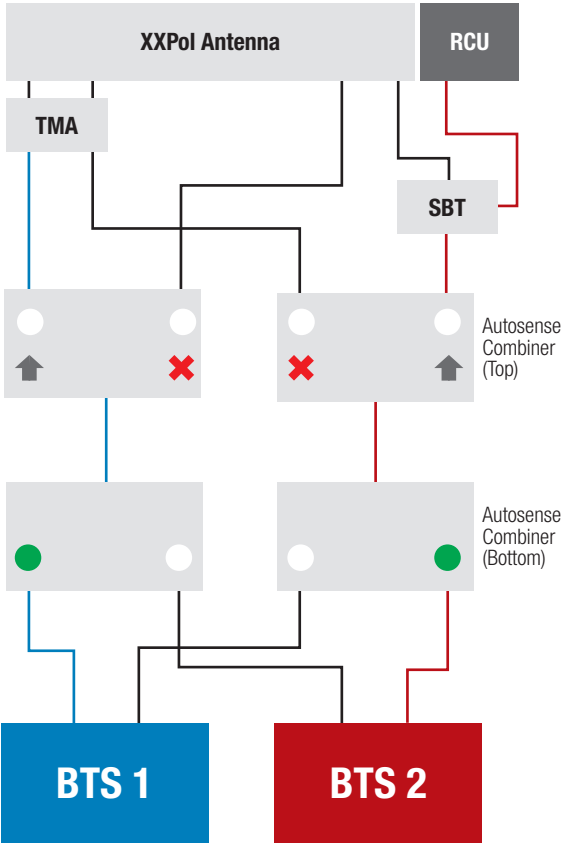
Autosense Combiners | Portfolio

Type no.	Frequency Ranges / MHz	Equivalent Type no. without Autosense
78210627 Single Unit	1710-1880, 1920-2200	78210620, -622, -624
78210628 Double Unit	1710-1880, 1920-2200	78210621, -623, -625
78210977 Single Unit	790-862, 880-960	78210970, -972, -974
78210978 Double Unit	790-862, 880-960	78210971, -973, -975
78211287 Single Unit	698-806, 824-960	78211280, -282, -284
78211288 Double Unit	698-806, 824-960	78211281, -283, -285
78211197 Single Unit	791-862, 880-960, 1710-2690	78211190, -192
78211198 Double Unit	791-862, 880-960, 1710-2690	78211191, -193



Please ask your local Kathrein sales contact for a delivery plan, or advise if further auto-sense combiner types are required.

Autosense Combiners | Application



- RCU: Remote Control Unit
- TMA: Tower Mounted Amplifier
- SBT: Smart Bias Tee
- BTS: Base Station

FEATURES/BENEFITS

- Prevent installation mistakes (e.g. incorrect cabling and/or DC bypass selection)
- Simplification of type choice: same type for bottom & top, one type for all DC bypass situations
- Reduce warehouse stock
- Reduce ordering logistics and number of parts
- No external DC stops required
- Flexible retrofitting of networks
- LED status indication (active at bottom side combiner only)
- AISG and CWA functionality



Type no. 78211197

KATHREIN-Werke KG
Anton-Kathrein-Straße 1-3
83022 Rosenheim, Germany
Phone +49 8031 184-0
Fax +49 8031 184-820
www.kathrein.com | mobilcom@kathrein.de