R&S®KG42-Z75
X-Cross Adapter

For R&S®Series4200 radios with R&S®Fx22x automatic filters

ROHDE & SCHWARZ

R&S®KG42-Z75 X-Cross Adapter
At a glance

VHF/UHF signals usually need to be filtered in an ATC system in order to reduce interference caused by other RF signals. In addition to manual filters, automatic filters such as the R&S®Fx22x can be used for this task. The R&S®KG42-Z75 X-cross adapter makes it possible to control these automatic filters via the R&S®Series4200 radios.

The R&S®KG42-Z75 X-cross adapter allows data to be exchanged between R&S®Series4200 radios and R&S®Fx22x automatic filters in order to adjust the filter frequencies. To achieve this, the R&S®KG42-Z75 X-cross adapter converts the radios' serial protocol into a parallel BCD signal. The R&S®KG42-Z75 X-cross adapter supports the migration from R&S®Series200 to R&S®Series4200 radios because the existing R&S®Fx22x filters do not have to be replaced.

The radio detects if the R&S®KG42-Z75 X-cross adapter or filter fails and displays an appropriate warning. If the power supply is interrupted, the current frequency is saved and then retransmitted to the filter. If the R&S®KG42-Z75 fails completely, the filter continues to function at the current operating frequency.

The radio supplies DC power to the R&S®KG42-Z75 X-cross adapter and to the automatic filter so that a separate power supply is not necessary. Two through holes are provided for integration of the equipment in ATC standard racks. A debug interface enables Rohde & Schwarz maintenance personnel to update and maintain the equipment.
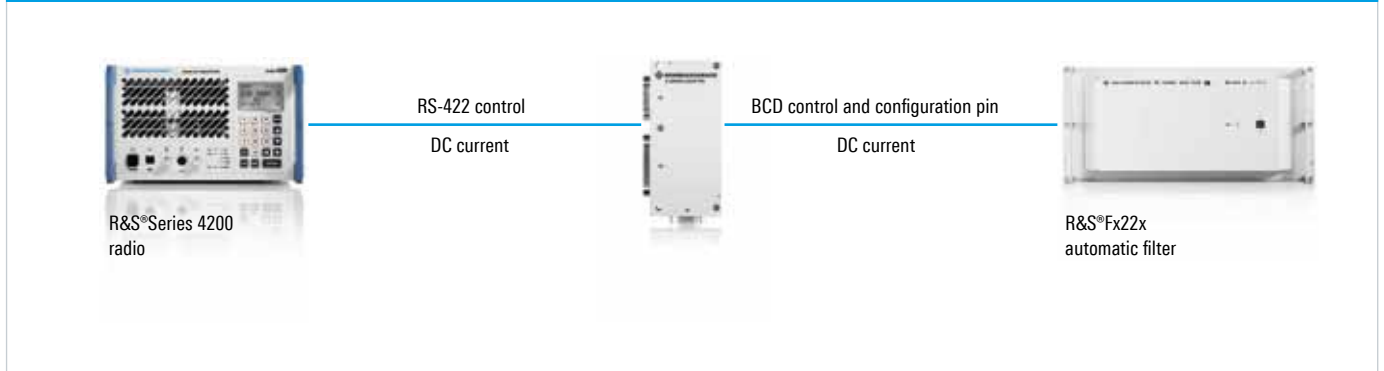
Key facts
▪ Control of R&S®Fx22x automatic filters for frequency setting via R&S®Series4200 radios
▪ DC power for adapter and filter supplied by radio
▪ Frequency storage in case of power failure
▪ Continued filter operation with current frequency setting if the R&S®KG42-Z75 fails

Application

Connection between R&S®Series4200 radios and R&S®Fx22x automatic filters

RS-422 control

DC current

BCD control and configuration pin

DC current

R&S®Series 4200 radio

R&S®Fx22x automatic filter

Specifications

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Electrical data		
Power supply		19 V to 36 V DC
EMC		in line with EN 55022:2006 + A1:2007, ETSI EN 301 489-1, ETSI EN 301 489-22
Environmental data		
Operating temperature range		–20 °C to +55 °C
Humidity		≤ 95 % at +40 °C
Mechanical data		
Dimensions	W × H × D	65 mm × 21 mm × 137 mm (2.6 in × 0.8 in × 5.4 in)
Weight	X-cross adapter	180 g (0.4 lb)
	X-cross adapter with cable	1228 g (2.7 lb)

Ordering information

Designation	Type	Order No.
X-Cross Adapter	R&S®KG42-Z75	6167.2633.02
Two cables are supplied with the adapter.		

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

Environmental commitment

▮ Energy-efficient products
▮ Continuous improvement in environmental sustainability
▮ ISO 14001-certified environmental management system

Certified Quality System	Certified Quality System
ISO 9001	EN 9100

Certified Quality System	Certified Quality System
AQAP-2110	EN 9110

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