

EXR 2508	20510095
EXR 2554	20510097
EXR 2558	20510096



KATHREIN
Digital Systems GmbH



Sat-IF distribution system (4 x sat-IF) Multi-switch

Features

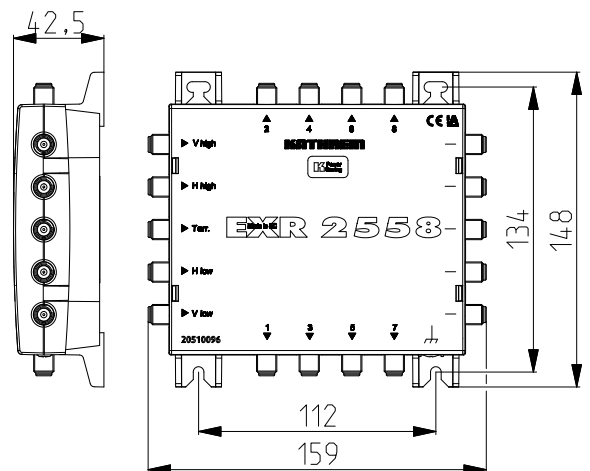
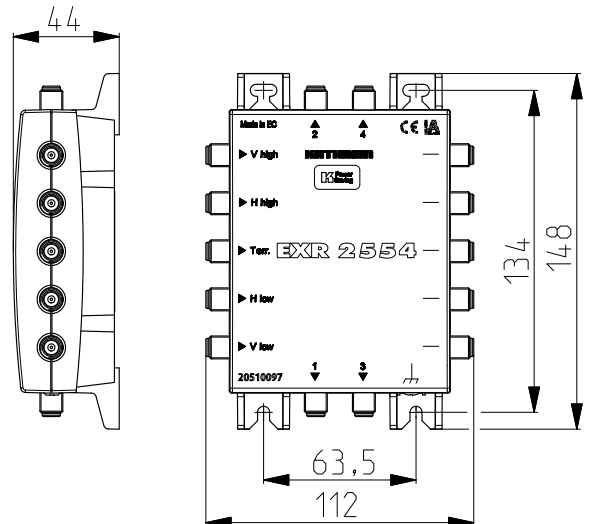
- Cascadable multi-switch for distribution of four satellite levels and terrestrial signals across multiple TV/Receiver
- Only one downlink per TV/Receiver needed (two for twin TV/Receiver)
- Independent selection of horizontal/vertical, low/high, for each TV/Receiver
- Switchable via the coaxial cable with 14/18 V and 0/22 kHz signal frequency
- Integral amplifier for low attenuation in satellite signal band
- Integral pre-emphasis to equalise cable attenuation
- Terrestrial signals also receivable even when sat TV/Receiver switched off
- Terrestrial band: 5-862 MHz, passive
- High degree of insulation between outputs
- Multi-switches EXR 2558 and EXR 2554, together with single-cable multi-switches of the EXD and EXE series can be combined
- Up to eight multi-switches can be cascaded
- For indoor installation

EXR 2508

- Multi-switches for eight ports with power supply unit for LNB power feed

NCF 18

- Low power consumption based on high-efficiency short-circuit-proof switch-mode power supply unit
- **Kathrein Power-Saving:**
The LNB power feed is switched off as soon as there are no longer any TV/Receiver active on the EXR 2508 or in the cascade. This function can be deactivated, for instance if loop-through multi-switches without Kathrein Power-Saving as used in the cascade
- LNB-Fernspeisung über den Eingang horizontal low. Signalisierung Kathrein-Power-Saving über den Stamm „vertikal low“. All other inputs are voltage-free



EXR 2554 and EXR 2558

- Loop-through multi-switch for system extension with four or eight connections each
- **Kathrein Power-Saving:**
As soon as there are no longer any TV/Receiver active, a signal is generated at the last multi-switch via the „vertical low“ trunk. This signal then switches the LNB power supply off.

Technical data

Type		EXR 2508		EXR 2554		EXR 2558	
Order no.		20510095		20510097		20510096	
Subscriber connections		8		4		8	
Inputs		1 x terr.	4 x sat-IF	1 x terr.	4 x sat-IF	1 x terr.	4 x sat-IF
Frequency ranges	MHz	5-862	950-2150	5-862	950-2150	5-862	950-2150
Through loss	dB	-	-	3,5	1,0 → 2,5 ¹⁾	3,5	1,0 → 2,5 ¹⁾
Connection loss ¹⁾	dB	15 → 17	5 → 0	18 → 20	5 → 0	18 → 20	5 → 0
Horizontal/vertical isolation	dB	-	25	-	25	-	25
Subscriber decoupling	dB	40	25	40	25	40	25
Trunk decoupling	dB	-	-	-	40	-	40
Max. output level ²⁾	dBμV	-	109	-	109	-	109
Vertical/horizontal input control	V	12-14,5/16-19					
Low/High band control	kHz	0/22					
Current consumption per subscriber	mA	20					
Nominal input voltage	V	230		-		-	
Rated input voltage range	V	198-253		-		-	
Nominal input power (800/150/0 mA load)	W	18/4,7/1,7		-		-	
Input voltage on DC input ³⁾	V	-		18		-	
Max. total remote feed current ³⁾	mA	800		-		-	
Max. remote feed current per trunk	mA	-		1000		1000	
Permissible ambient temperature	°C	- 20 to + 50					
Connections		F connectors					
Dimensions (W x H x D)	mm	215 x 148 x 43		112 x 148 x 44		159 x 148 x 43	
Packing unit/weight	pc./kg	1 (10)/0,65		1 (10)/0,35		1 (10)/0,45	

¹⁾ Frequency-dependent attenuation

²⁾ SAT to EN 60728-3, 35 dB IMA

³⁾ Via horizontal low input

Please find the technical data from plug-in power supply unit NCF 18 on www.kathrein-ds.com.

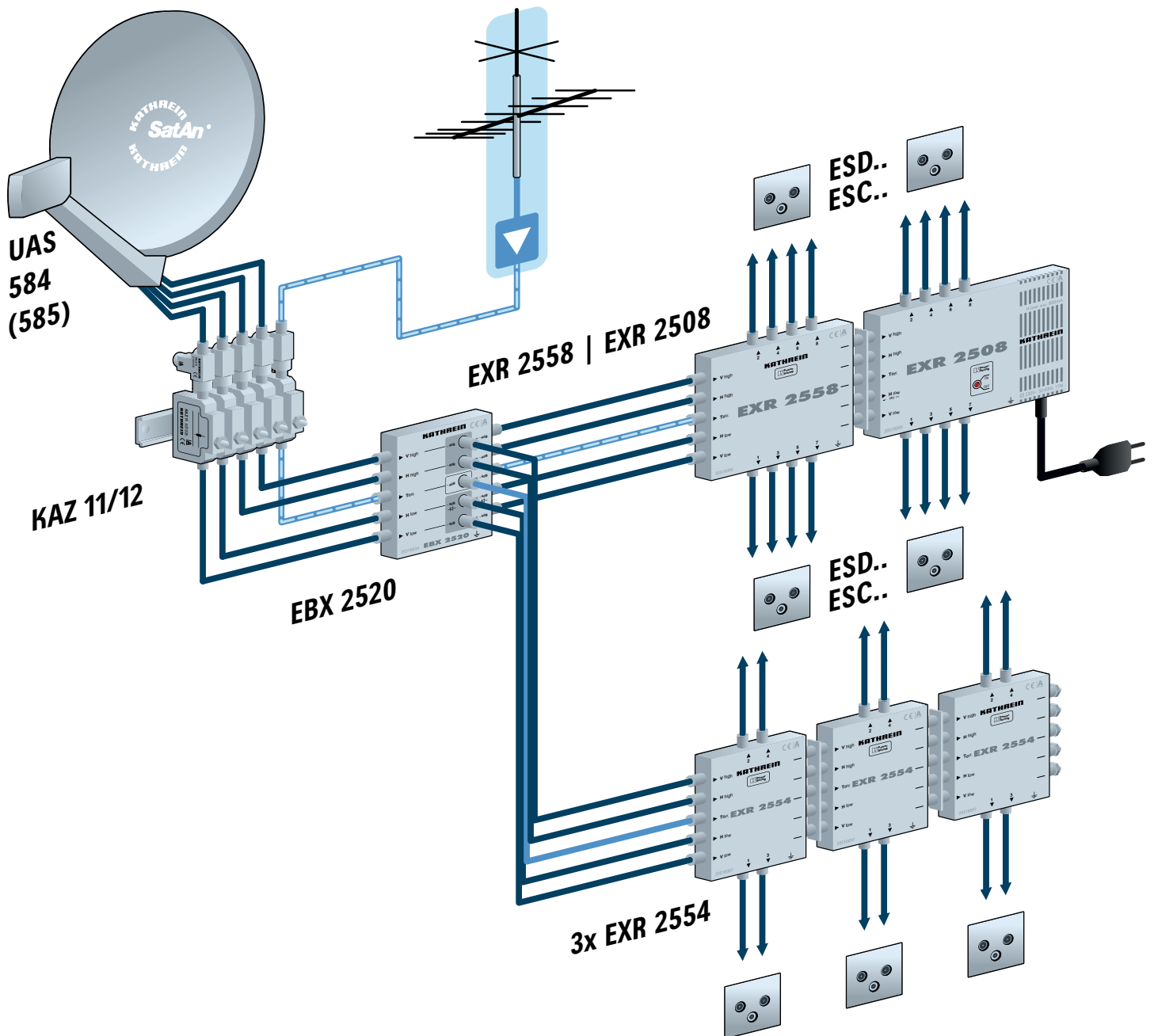
Kathrein Power Saving

If an EXR 2508 is operated as a stand-alone device or is operated in conjunction with other multi-switches which bear the Kathrein Power-Saving logo, Kathrein Power-Saving can be activated when the stand-by switch is set to „ON“. If a TV/ Receiver is included in the cascade, the LNB is supplied from the last multi-switch.



Multi-switches without Kathrein Power-Saving do not generate any signal to the last multi-switch. In order to ensure an uninterrupted power supply to the LNB, the stand-by switch must be set to „OFF“.

Installation example (symbolic representation)



SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, KATHREIN Digital Systems GmbH declares that the devices described in this document are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.kathrein-ds.com

Installation and safety instructions

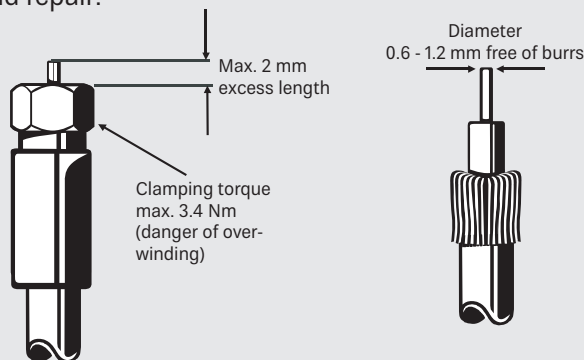


- ▶ The equipment described is designed solely for the installation of satellite reception systems and may only be installed by trained specialist personnel.
- ▶ Any other use, or failure to comply with these instructions, will result in voiding of warranty cover.
- ▶ The equipment may only be installed in dry indoor areas. Do not install on or against highly combustible materials.
- ▶ The equipment must be provided with an earthing wire (Cu, at least 4 mm²).
- ▶ The safety regulations set out in the current EN 60728-11 and EN 62368-1 standards must be complied with.
- ▶ Fasteners for concrete substrates and masonry: 4 suitable plugs and associated screws with half-round or cylindrical head, outer thread diameter 4.5-5 mm, head diameter ≥ 9 mm and a screw length ≥ 30 mm. For other types of wall, use the appropriate screws or screw-dowel systems, which offer the same or better fastening.
- ▶ Connector: RF plug 75 Ω (series F) to EN 61169-24.
- ▶ Unused subscriber ports should be closed off with 75 Ω resistors (e.g. EMK 03).
- ▶ To comply with the EMC requirements, only the NCF 18 is approved as a plug-in power supply unit. Screw the F-connector of the power supply unit for the LNB supply to the „DC“ socket of the EXR 2508.



Risk of damage to property!

An inner cable conductor with a diameter greater than 1.2 mm, or the presence of burrs may damage the device inputs/outputs beyond repair.



Current-carrying device

- ▶ Do not open or tamper with the unit!
- ▶ When working on the system always unplug the power supply unit from the wall socket!
- ▶ Ensure adequate clearance! Clearance all round at least 5 cm!
- ▶ The unit must not be mounted on the ceiling.
- ▶ Free circulation of air must be possible to discharge the heat emitted by the unit. Risk of overheating!
- ▶ Permissible ambient temperature -20 to +50 °C.

Important:

- ▶ The power supply unit must be easily accessible and operable.
- ▶ The only reliable method of disconnecting the unit from the mains is to unplug the plug-in power supply unit.
- ▶ Therefore the power supply unit must be easily accessible.

Disposal



Electronic equipment

Electronic equipment is not domestic waste – in accordance with directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 4th July 2012 concerning used electrical and electronic appliances, it must be disposed of properly. At the end of its service life, take this unit for disposal at a designated public collection point.