



**ERICSSON**

Ericsson Antenna Technology Germany GmbH • Klepperstraße 26 • 83026 Rosenheim • Germany

# Kathrein Mobile Communication – now part of Ericsson

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Company Responsible:  
Markus Feld

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Tax ID No.: 103/5725/3930

BNP Paribas  
IBAN: NL05 BNPB 0227 7141 56  
BIC: BNPANL2AXXX

Zum 1. Oktober 2019 ist die Kathrein Mobile Communication die Ericsson Antenna Technology Germany GmbH (im Folgenden auch „EAG“), eine mit Gesellschaftsvertrag vom 16. Januar 2019 neu gegründete Gesellschaft mit beschränkter Haftung (GmbH) nach deutschem Recht mit Sitz in Rosenheim (Geschäftsanschrift: Prinzenallee 21, 40549 Düsseldorf). EAG ist im Handelsregister B des Amtsgerichts Traunstein unter der Nr. HRB 27988 eingetragen und hat ein Stammkapital von derzeit EUR 2.000.000,00. EAG wird vertreten durch den Geschäftsführer Markus Feld. Alleinige Gesellschafterin von EAG ist die Telefonaktiebolaget LM Ericsson (publ), eine börsennotierte Aktiengesellschaft nach schwedischem Recht.

Die neuen Firmendaten lauten seither wie folgt:  
**Ericsson Antenna Technology Germany GmbH**  
Klepperstraße 26  
83026 Rosenheim, Germany  
UST-Ident-Nr: DE 324 954 029  
Steuer-Nr.: 103/5725/3930

As of 1 October 2019, Kathrein Mobile Communication is Ericsson Antenna Technology Germany GmbH (hereinafter also referred to as "EAG"), a limited liability company under German law, newly established by articles of association dated 16 January 2019, with its head office in Rosenheim (business address: Prinzenallee 21, 40549 Düsseldorf, Germany). EAG is registered in the commercial register, section B, of Amtsgericht Traunstein (district court Traunstein) under the number HRB 27988 and has a share capital of currently EUR 2,000,000. EAG is represented by managing director Markus Feld. The sole shareholder of EAG is Telefonaktiebolaget LM Ericsson (publ), a listed stock corporation under Swedish law.

The new company data are as follows:  
**Ericsson Antenna Technology Germany GmbH**  
Klepperstraße 26  
83026 Rosenheim, Germany  
VAT Reg. No.: DE 324 954 029  
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Read more at: [ericsson.com/en/networks/kathrein](http://ericsson.com/en/networks/kathrein)

# Antenna Line Configurator (ALC) For Antenna Line Devices (ALD)

**KATHREIN**

- Supports AISG 2 / AISG 3
- HDLC-logging feature
- High-resolution display
- New Browser-interface



## Antenna Line Configurator

Type No.	86010158
Connector* to RCU/TMA	1 x 8-pin connector according to IEC 60130-9, female, conforming to AISG RF-connector (SMB male)
Input voltage of ALC	24 V DC
Display	High-resolution display, sunlight visible
Tiltensor	Measuring range $\pm 80^\circ$ , accuracy $\pm 1^\circ$
Output voltage to RCU's/TMA's	AISG female pin 6: 24 $\pm$ 1 V DC RF-plug: 24 $\pm$ 1 V DC
Output power (power supply to RCU's/TMA's)	RF-plug + AISG female pin 6 $\leq$ 15 W
Current monitoring measurement level	AISG female pin 6, RF-plug: 10 – 650 mA
Over-current protection	AISG female pin 6, RF-plug: < 650 mA
Interface to RCU/TMA	RS 485 / power supply / RF connector (SMB male)
Protocol to RCU/TMA	HDLC hex-coded command set, conforming to 3GPP / AISG 2 and AISG 3
Interface	W-LAN (802.11g), USB 2.0
Max. number of RCU's/TMA's	9/1 pcs., depending on system configuration and length of control cable
Max. length of control cable	200 m / 9 RCU's (in daisy chain configuration) 150 m / 6 RCU's (in splitter configuration)
Internal memory	512 MB
Weight	1 kg   2.2 lb
Protection class	IP 54
Temperature range (operating)	-20 ... +45 °C ambient temperature
Temperature range (charging)	10 ... +40 °C ambient temperature
Dimensions (H x W x D)	265 x 102 x 37 mm   10.4 x 4.0 x 1.5 inches
Packing size	405 x 290 x 105 mm   15.9 x 11.4 x 4.1 inches
Power supply	LiPo-battery (16.6 V, > 1850 mAh)



\* Tightening torque for fixing the connector must be 0.5-1.0 Nm ('hand-tightened').  
The connector should be tightened by hand only!

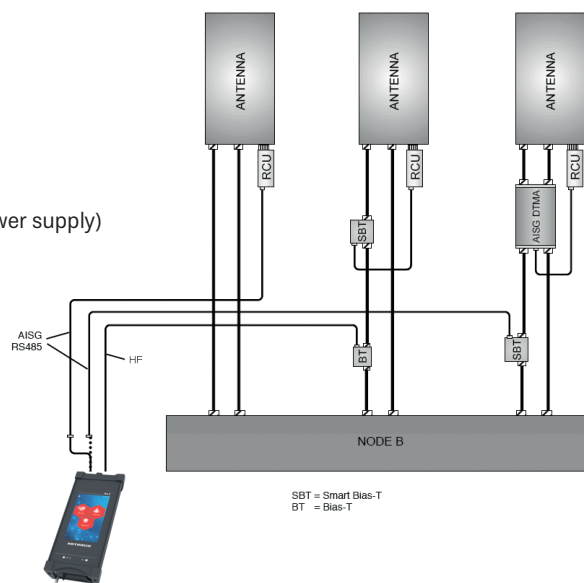
### Please Note:

The user manual can be downloaded from our website <https://www.kathrein.com/en/support/technical-documents/user-manuals/>

Certificate: CE  
FCC  
UL (for external power adapter)

Standards: EN 60950-22  
EN 62368-1  
EN 62479  
EN 50581  
ETSI EN 301489-1  
ETSI EN 301489-17  
ETSI EN 300328 2.1.1

Scope of supply: ALC  
Charging device (can also be used as external power supply)  
USB cable  
RET cable  
HF cable (SMB / 7-16)  
Transport case  
Screen cover



936.0000629c | Subject to alteration.

**Any previous data sheet issues have now become invalid.**

# Connecting Cable For Remote Electrical Tilt (RET) System

For indoor and outdoor use

## RET Cable for power supply and control

Type No.	86010007 ...
Connectors	2 x 8 pin connector according IEC 60130-9, female/male
Tightening torque for fixing the connectors	<b>0.5 – 1 Nm</b> <b>(The connector should be tightened by hand or by special torque screddriver)</b>
Construction	Screen 1x twisted pair 100 Ω/1 MHz 2x power supply, 1x ground AWM style 20317 I/II A/B + 20549 + 20233
Rated current	4 A (power supply) (at 50 °C air temperature)
Temperature range	-40 °C to +80 °C, (fixed position)
Protection class	IP 67 (connected)
Cable diameter	8 mm
Flammability	VL 1581 VW-1 CSA FT 1
Colour	Black, similar to RAL 9005

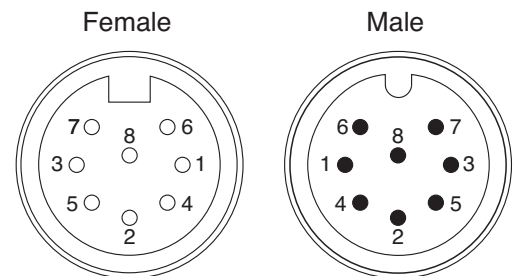


Minimum bending radius: One time 60 mm, several times 120 mm.

The male and female connectors of all Kathrein RET products are compatible components which are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E.

## Control Cable

Length	Type No.
0.5 m	86010054
1 m	86010007
2 m	86010008
3 m	86010029
5 m	86010009
10 m	86010010
20 m	86010032
25 m	86010011
40 m	86010012
50 m	86010033
60 m	86010013
80 m	86010014
100 m	86010015



### PIN assignment according AISG:

- 1 +13 V DC (+12 V DC nominal)
- 2 not connected
- 3 RS485 B
- 4 not connected
- 5 RS485 A
- 6 +29 V DC (+24 V DC nominal)
- 7 DC Return
- 8 not connected

936.4533 Subject to alteration.



### Optional:

Torque screwdriver for AISG connecting cable (order no. 85010080).  
With the torque screwdriver, Kathrein connecting cables can be easily fixed with the recommended torque of 1 Nm.



Old style connector:  
Torque screwdriver not usable



New style connector:  
Torque screwdriver usable