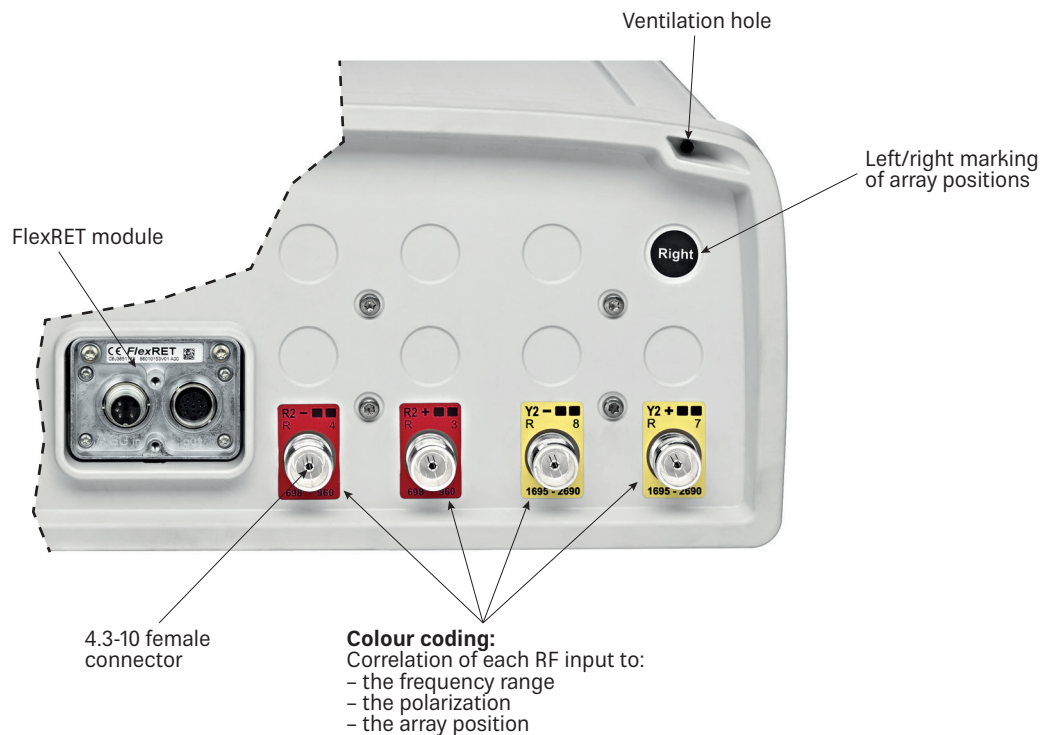


General Instructions for Feeder Line Installation for Antennas with 4.3-10 Connectors

KATHREIN

Please note: In order not to damage the interfaces, please make sure that only the right tools are used. Tighten the feederline connector interfaces solely by using a common torque-wrench with a suitable wrench width.

Description of bottom end cap (exemplary picture):



Installation of feeder line cables:

Tighten the 4.3-10 cable connectors within a torque range of max. 15 Nm depending on connector manufacturers' specifications. The recommended tightening torque of 4.3-10 connectors is 5–8 Nm. For the FlexRET installation, please follow the FlexRET installation instruction on the data sheet.

Installation of Smart Bias Tees:

If directly mounted on the antenna, the weight of one Smart Bias Tee must not exceed 440 g | 0.96 lb per antenna connector. It is recommended to only use Kathrein Smart Bias Tees with 4.3-10 connector (type no. 78211590, ..., -597).

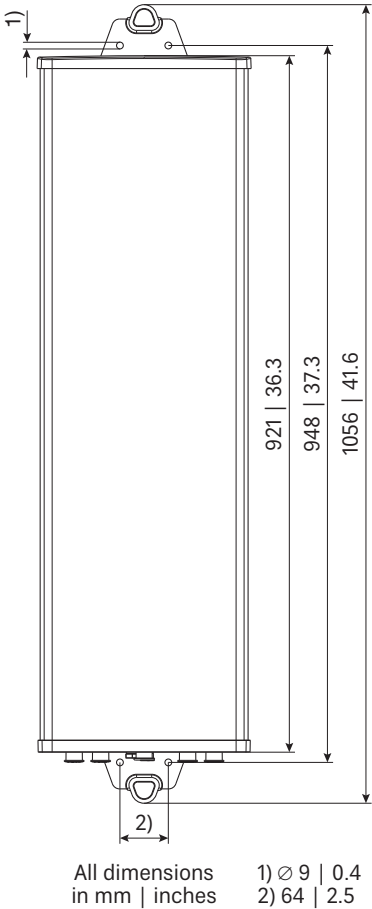
Hold the Smart Bias Tee housing securely while mounting and tightening the cables. No lateral pressure shall be applied on the Smart Bias Tee when mounting it directly on an antenna neither during the mounting process nor in operational mode.

8+1-Port Antenna	P1	P2	P3	P4
Frequency Range	3300–3800	3300–3800	3300–3800	3300–3800
Dual Polarization	X	X	X	X
HPBW	90°	90°	90°	90°
Gain	15.6dBi	15.7dBi	15.7dBi	15.6dBi
Adjust. Electr. DT set by integrated RET	2°–12°	2°–12°	2°–12°	2°–12°



8+1-Port Antenna 4HB 0.9m 90° | 4x3300–3800 15.7dBi

Type No.	800250911
----------	------------------

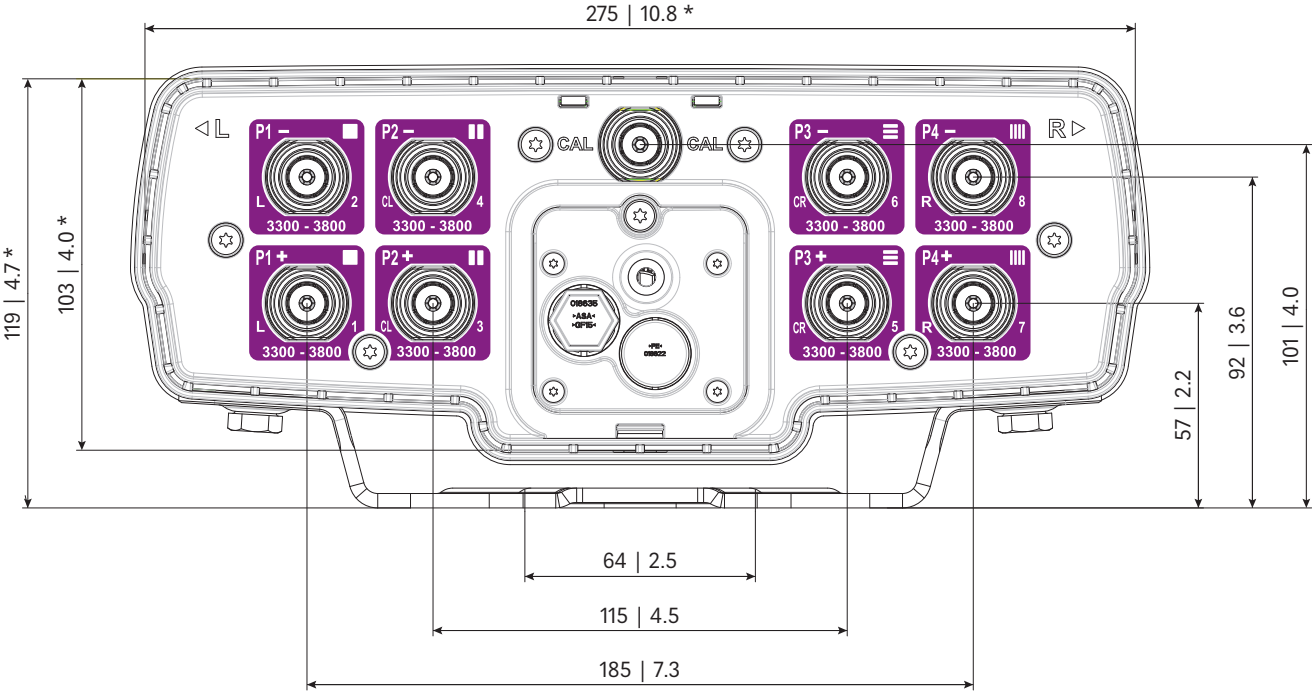


Electrical specifications, all ports		
Impedance	Ω	50
VSWR		< 1.5
Return Loss	dB	> 14
Interband Isolation	dB	> 23
Polarization	°	+45, -45
Max. Effective Power for the Antenna	W	200 (at 50 °C ambient temperature)

Values based on NGMN-P-BASTA (version 10.0) requirements.

Mechanical specifications		
Input		8 x 4.3-10 female
CAL		1 x 4.3-10 female
Connector Position		bottom
Adjustment Mechanism		Integrated RET, continuously adjustable
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal: 345 78 Maximal: 380 85
Max. Wind Velocity	km/h mph	241 150
Height / Width / Depth	mm inches	921 / 275 / 103 36.3 / 10.8 / 4.1
Category of Mounting Hardware		M (Medium)
Weight	kg lb	7.0 / 9.2 (clamps incl.) 15.4 / 20.3 (clamps incl.)
Packing Size	mm inches	1150 / 340 / 185 45.3 / 13.4 / 7.3
Scope of Supply		Panel and 2 units of clamps for 42–115 mm 1.7–4.5 inches diameter

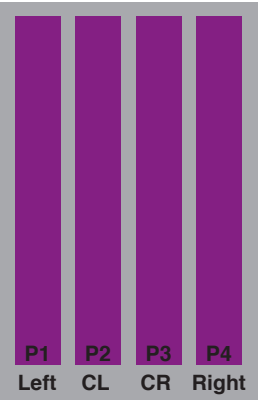
Layout of interface:



Bottom view
* Dimensions refer to radome
All dimensions in mm | inches

Correlation Table

Frequency range	Array	Connector / Ports
3300-3800 MHz	P1	1-2
3300-3800 MHz	P2	3-4
3300-3800 MHz	P3	5-6
3300-3800 MHz	P3	7-8



Attention:
Risk of damage if the RF Ports are connected incorrectly.
No RF power on CAL port allowed!

Accessories (order separately if required)

Type No.	Description	Remarks mm inches	Weight approx. kg lb	Units per antenna
731651	1 clamp	Mast diameter: 28-60 1.1-2.4	0.8 1.8	2
85010002	1 clamp	Mast diameter: 110 - 220 4.3-8.7	2.7 6.0	2
85010003	1 clamp	Mast diameter: 210-380 8.3-15.0	4.8 10.6	2
737978	1 downtilt kit	Downtilt angle: 0°-20°	2.3 5.1	1

Accessories (included in the scope of supply)

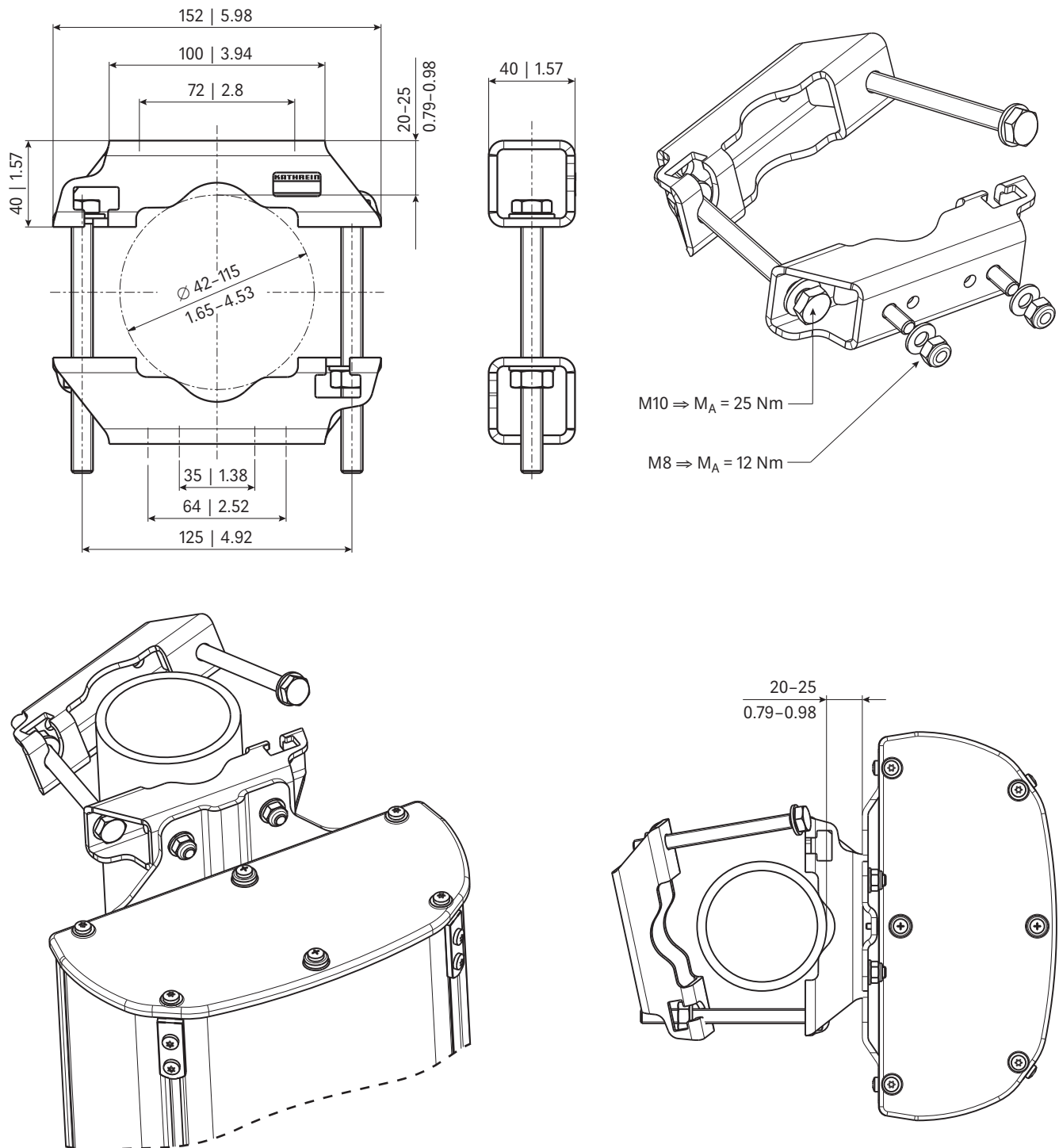
738546	1 clamp	Mast diameter: 42-115 1.7-4.5	1.1 2.4	2
1690002182	IRCU			1

Mounting Hardware

Clamp Included in the Scope of Supply

KATHREIN

Suitable for mast diameter	mm inches	42 – 115 1.65 – 4.53
Antenna – mast distance	mm inches	20 – 25 0.79 – 0.98
Material of clamp and screws	Hot-dip galvanized steel / stainless steel	
Weight	kg lb	1.1 2.43



**Please note: Kathrein does not recommend to use counter nuts.
The additional nuts supplied are only meant as spares.**

All dimensions in mm | inches

Any previous data sheet issues have now become invalid.

738546 Page 1 of 1