



## **MS-MBA-8** RET Operation Manual







The MS-MBA-8 antenna comes standard with an MDCU Controller and 10 motorized RET elements. Each motorized RET element control 2 ports +45/-45 of the respected beam.

Factory default firmware for the MDCU Controller is MRET (Type 17), however SRET (Type 1) is available upon request.

BEAM 1 HB

Port 7 (+45°

Ø

🗃 Port 5 (+45°)

Port 3 (+45°)

Ø

Port 1 (+45°)

ø

(00)

0

Ø

100

0

10

Port

ø

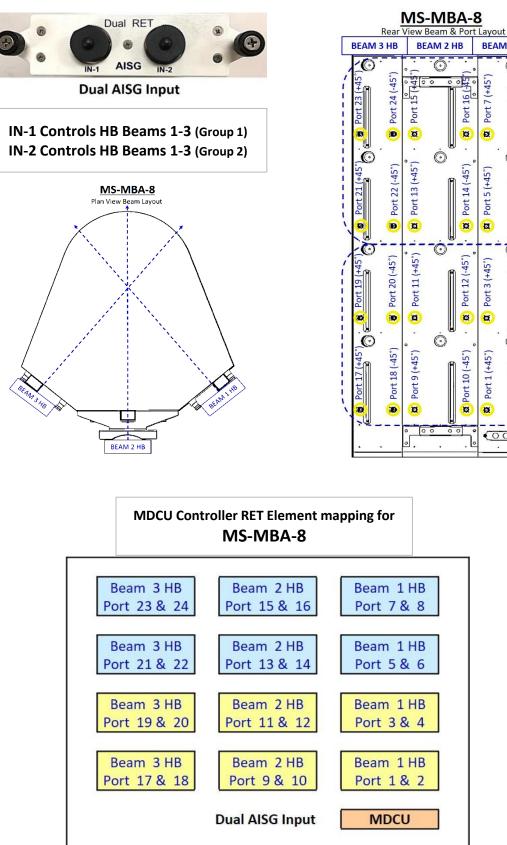
 $\odot$ 

Group

(0)

 $\odot$ 

Group 2



A standard **AISG 2.0** compliant cable (not included) is used to connect the <u>MDCU to the AISG</u> <u>interface control.</u> Once connected, use an **AISG 2.0** compliant Control software to perform a **Sub Unit SCAN** to identify the <u>MS-MBA-8</u> RET Elements.

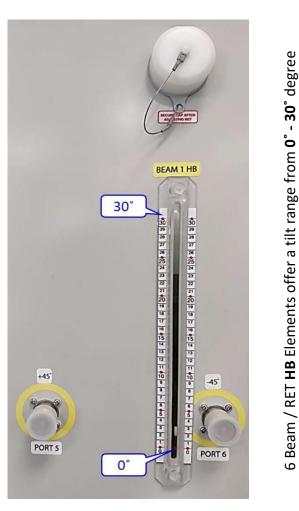
RET	CONN		AISG IN-1: "Gro	up1" (HB) Serial Enc	l with "AMM"	AISG IN-	2: "Gro	oup2" (H	B) Serial	End with "B	MM"
ALD Lis	t			[	/		_				
NO	HDLC	Vendor	Serial Numb	Product Number	version	S/W Version	<b>3GPP</b>	Device	AISG	Connect	Link
1	1	MS	MBASP00000000 1AMM	ACS MIC 20	1.00	1.13	6	Multi	2	🙆 Con	🥝 L
<b>₩</b> 2	2	MS	MBA8P000000001BMM	ACS-RMC20	1.00	1.13	6	Multi	2	🥝 Con	Ο ι.

RET Tilt Window		ment to Group	1				
RET ID : MSMBA8P00000001AMM	I Beam &	Port Assigned					
RET Status and Control							
Antenna Information List		0					
NO Sector ID	Ant Model	Ant Serial	Current Tilt	Status			
1/6 Beam 1 (P1,2)	MBA-S	MS-MBA-8-00001					
2/6 Beam 2 (P9, 10)	MBA-8	MS-MBA-8-00001	0.0	Normal			
3/6 Beam 3 (P17, 18)	MBA-8	MS-MBA-8-00001	0.0	Normal			
4/6 Beam 1 (P3,4) 5/6 Beam 2 (P11,12)	MBA-S MBA-S	MS-MBA-8-00001 MS-MBA-8-00001	0.0 0.0	Normal Normal			
6/6 Beam 3 (P19,20)	MBA-8	MS-MBA-8-00001	0.0	Normal			
			2.12				
RET ID : MSMBA8P00000001AMM							
RET Addional Device Data							
Antenna Number Sub Unit : 1/6 Device Data							
j Device Data		RE	TID: MSMBA8P00	0000001BMM			
for UR Group		RET	Addional Device Data	∧			
ANT Model MBA-8			tenna Number  Sub Unit	Device Data			
Band UL(1920~1980),DL(2110~2170)				de Data Management			
Band Ext8			ITNO 1	for HB Group			
Band Ext9		1.00	IT Model MBA				
Beamwidth #1 22			5C (1997)	4BA-8-00001			
Beamwidth ≑2 0		Ba	nd UL(1 nd Ext8	920~1980),DL(2110~2170)			
Beamwidth #3 0			nd Ext8 nd Ext9				
Beamwidth ≑4 0		- Contraction of the Contraction	amwidth #1 22				
Gain #1 18.5			amwidth #2 0				
Gain #2 0.0		Be	amwidth #3 0				
Gain ≑3 0.0 Gain ≑4 0.0		Be	amwidth #4 0				
Gain ≑4 0.0 Max Tilt 30.0		Ga	in ≓1 18.5				
Min Tilt 0.0			in =2 0.0				
Installation Date			in #3 0.0				
Installer's ID			in ≑4 0.0				
Base Station ID		1.000	ax Tilt 30.0				
Sector ID Beam 1 (P1,2)		1	n Tilt 0.0 stallation Date				
Ant Bearing 0.0		1000	staller's ID				
Mechanical Tilt 0.0			se Station ID				
		Se	ctor ID Bean	n 1 (P5,6)			
		An	t Bearing 0.0				
		Me	chanical Tilt 0.0				
ET Tilt Window	RET HB Element	to Group					
RET ID : MSMBA8P00000001BMM	2 Beam & Port	Assigned					
- RET Status and Control	7/						
Antenna Information List							
	And Madel	Ant Carial	Current Tile	Ct-tuo			
NO Sector ID	Ant Model	Ant Serial	Current Tilt	Status			
1/6 Beam 1 (P5,6)	MBA-8	MS-MBA-8-00001	0.0	Normal			
2/6 Beam 2 (P13,14)	MBA-S	MS-MBA-8-00001 MS-MBA-8-00001	0.0	Normal			
3/6 Beam 3 (P21,22)	MBA-S MBA-S	MS-MBA-8-00001 MS_MBA_8_00001	0.0 0.0	Normal Normal			
4/6 Poor 1 (07 9)							
4/6 Beam 1 (P7,8) 5/6 Beam 2 (P15,16)	MBA-8	MS-MBA-8-00001 MS-MBA-8-00001	0.0	Normal			

## **Calibration:**

Prior to use, RET Element calibration is required. Re-Calibration is also required if manual mode was used at any point to adjust tilt

During calibration, the RET Element will use an Upper & Lower har-stop to calibrate **0°-30° (HB)** Degree range.



The current degree of tilt is indicated by the movable **RED MARKER TIP.** 

## Manual Mode

The **MS-MBA-8** antenna offers a manual override option.

Step 1:

Unscrew/Screw the cap for tilt adjustment process



Step 2:

Engaged with internal RET Motor position



Step 3:

Pull knob out to disengaged RET for tilt adjustment

independantly.

