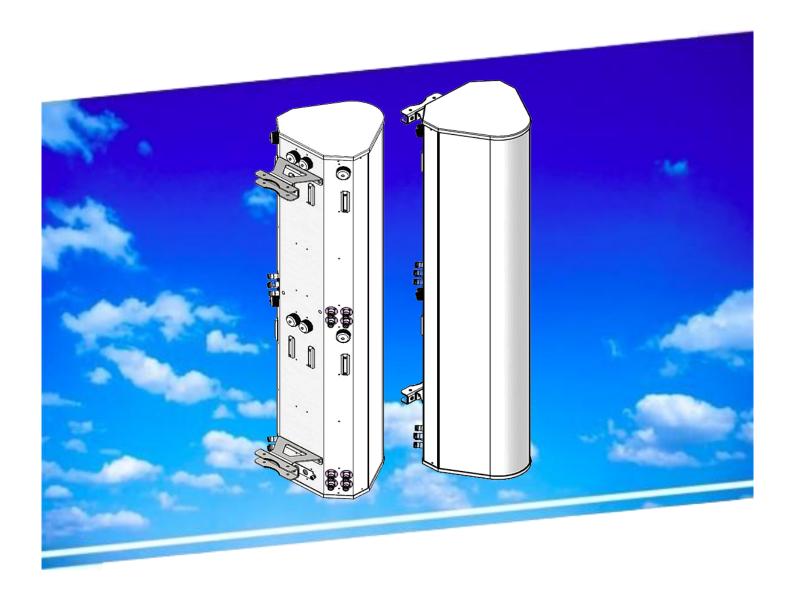


LENS TECHNOLOGY ENABLED

MS-MBA-4-C4A3-2

Instruction Manual





phone: (800) 867-6429

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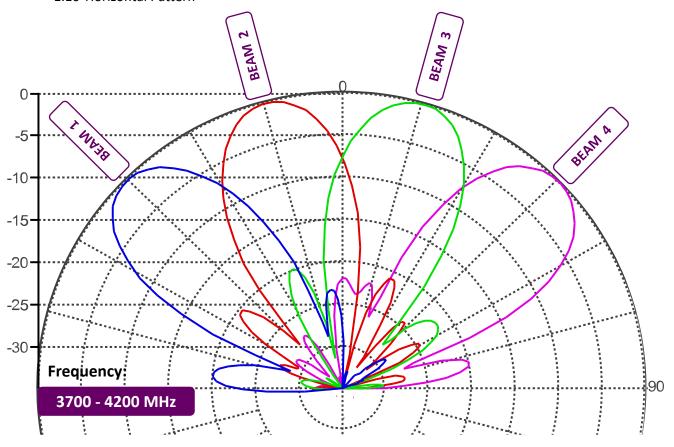
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Revision History:

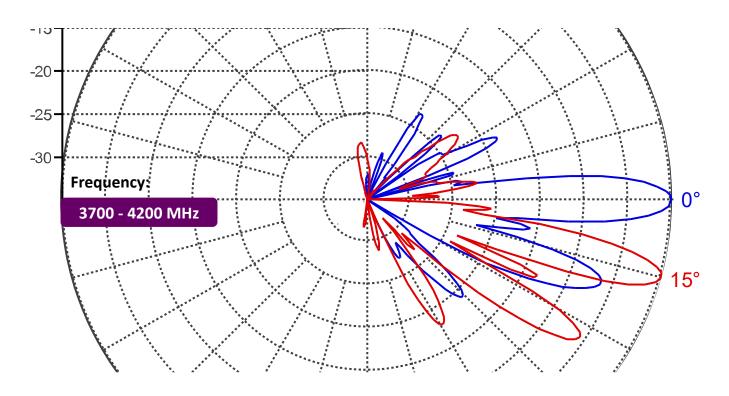
<u>Date</u>	<u>Description</u>	Rev By	Check By	Rev no
26-Aug-2025	Initial Release	RL	Pavel	0
16-Sep-2025	General update	RL	Pavel	1

1.00 Pattern Diagram

1.10 Horizontal Pattern

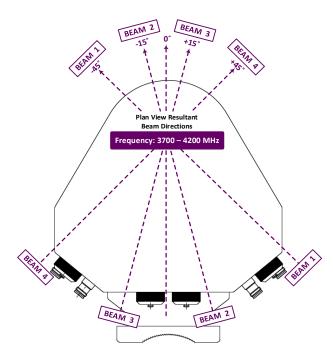


1.20 Vertical Pattern



2.00 Beam and Connectors

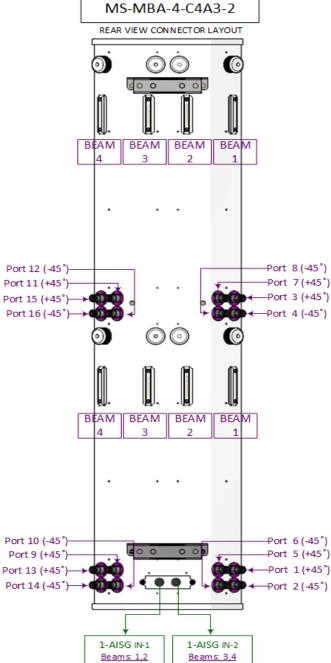
2.10 Plan View Resultant Beam Layout



2.20 Connector Port Table

BEAM	BEAM	BEAM	BEAM
4	3	2	1
Port 15	Port 11	Port 7	Port 3
(+45°)	(+45°)	(+45°)	(+45°)
Port 16	Port 12	Port 8	Port 4
(-45°)	(-45°)	(-45°)	(-45°)
Port 13	Port 9	Port 5	Port 1
(+45°)	(+45°)	(+45°)	(+45°)
Port 14	Port 10	Port 6	Port 2
(-45°)	(-45°)	(-45°)	(-45°)

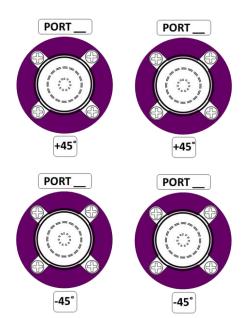
2.40 Connector Layout



Ports: 1 to 8

Ports: 9 to 16

2.30 Connector Detail



RL

3.00 RET Operations and Information's

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

3.10 Example of Serial Numbers Label Reference



LENS TECHNOLOGY ENABLED

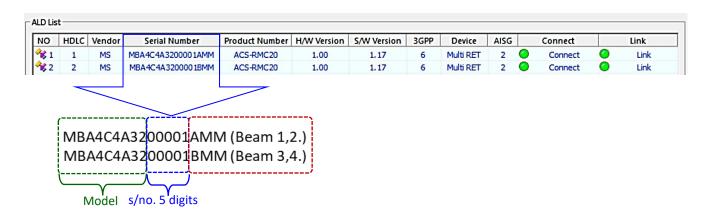
Model No. : MS-MBA-4-C4A3-2 Serial No. : MS-MBA-4-C4A3-2 00001 Frequency: 3700 – 4200 MHZ

> Ret Controller Serial # MBA4C4A3200001AMM MBA4C4A3200001BMM

Delete a zero in front if the serial number is more than 5 digits.

Reminder: If information has been edited, remember to perform a "radio hard reset" for changes to take place.

3.11 Controller Display



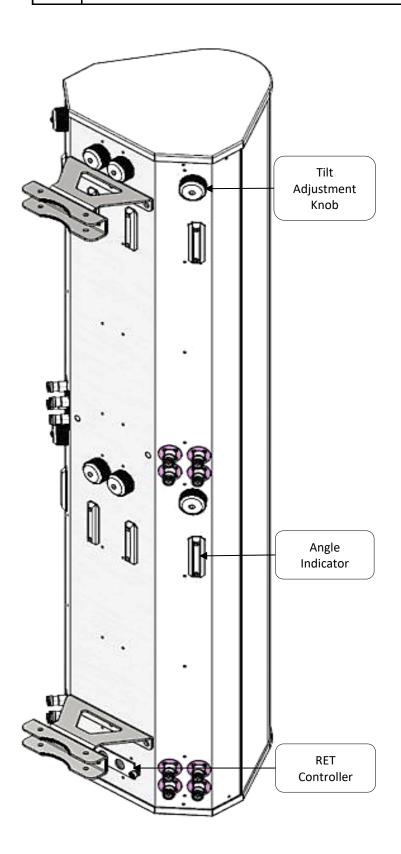
3.12 Beam nos and Port nos Display

RET ID: MSMBA4C4A3200001AMM RET Status and Control **BEAM 2 BEAM 1** Antenna Information List Port 7 (+45°) Port 3 (+45°) NO Sector ID Ant Model Ant Serial 1/4 Port 8 (-45°) Port 4 (-45°) Beam 1 (Ports 1, 2) MS-MBA-4-C4A3-2 MSMBA4C4A320001 2/4 Beam 1 (Ports 3, 4) MS-MBA-4-C4A3-2 MSMBA4C4A320001 Port 5 (+45°) Port 1 (+45°) 3/4 Beam 2 (Ports 5, 6) MS-MBA-4-C4A3-2 MSMBA4C4A320001 Port 6 (-45°) Port 2 (-45°) 4/4 Beam 2 (Ports 7, 8) MS-MBA-4-C4A3-2 MSMBA4C4A320001

RET ID: MSMBA4C4A3200001BMM					
	and Control	BEAM 4	BEAM 3		
Antenna Information List			DE, tivi 4		
NO	Sector ID	Ant Model	Ant Serial	Port 15 (+45°)	Port 11 (+45°)
1/4	Beam 3 (Ports 9, 10)	MS-MBA-4-C4A3-2	MSMBA4C4A320001	Port 16 (-45°)	Port 12 (-45°)
2/4	Beam 3 (Ports 11, 12)	MS-MBA-4-C4A3-2	MSMBA4C4A320001	Port 13 (+45°)	Port 9 (+45°)
3/4	Beam 4 (Ports 13, 14)	MS-MBA-4-C4A3-2	MSMBA4C4A320001	PUIT 13 (+43)	
2/4 3/4 4/4	Beam 4 (Ports 15, 16)	MS-MBA-4-C4A3-2	MSMBA4C4A320001	Port 14 (-45°)	Port 10 (-45°)

4.00 Manual Tilt Adjustment

- The MBA antenna comes in RET mode as a default, but if needed, it can also be manually adjusted. To 1 do so, please unscrew the waterproof cap behind the element whose tilt is to be adjusted. By default, the knob is in engaged mode; pull out the handle for manual tilt adjustment; turn the
 - 2 handle to change the tilt.
 - 3 When done, push the handle back in and screw the waterproof cap back to its original position.



Unscrew/Screw the cap for tilt adjustment process



Engaged with internal RET motor position



Pull handle out to disengaged **RET for tilt adjustment**



5.00 Bracket Installation

5.10 Bolts, Nuts and Tools

Bracket	Mounting Bolts		Nuts		
Qty	Size	Qty	Size	Qty	
2	M12x200mm	4	M12	8	

5.11 Bolt and Nuts Set



5.20 Tools 5.12 Bracket









5.30 Bracket Spacing & Installation Sample

