

MATSING[®]

LENS TECHNOLOGY ENABLED

MS-MBC-4.2-H4-12-L4-20

Instruction Manual

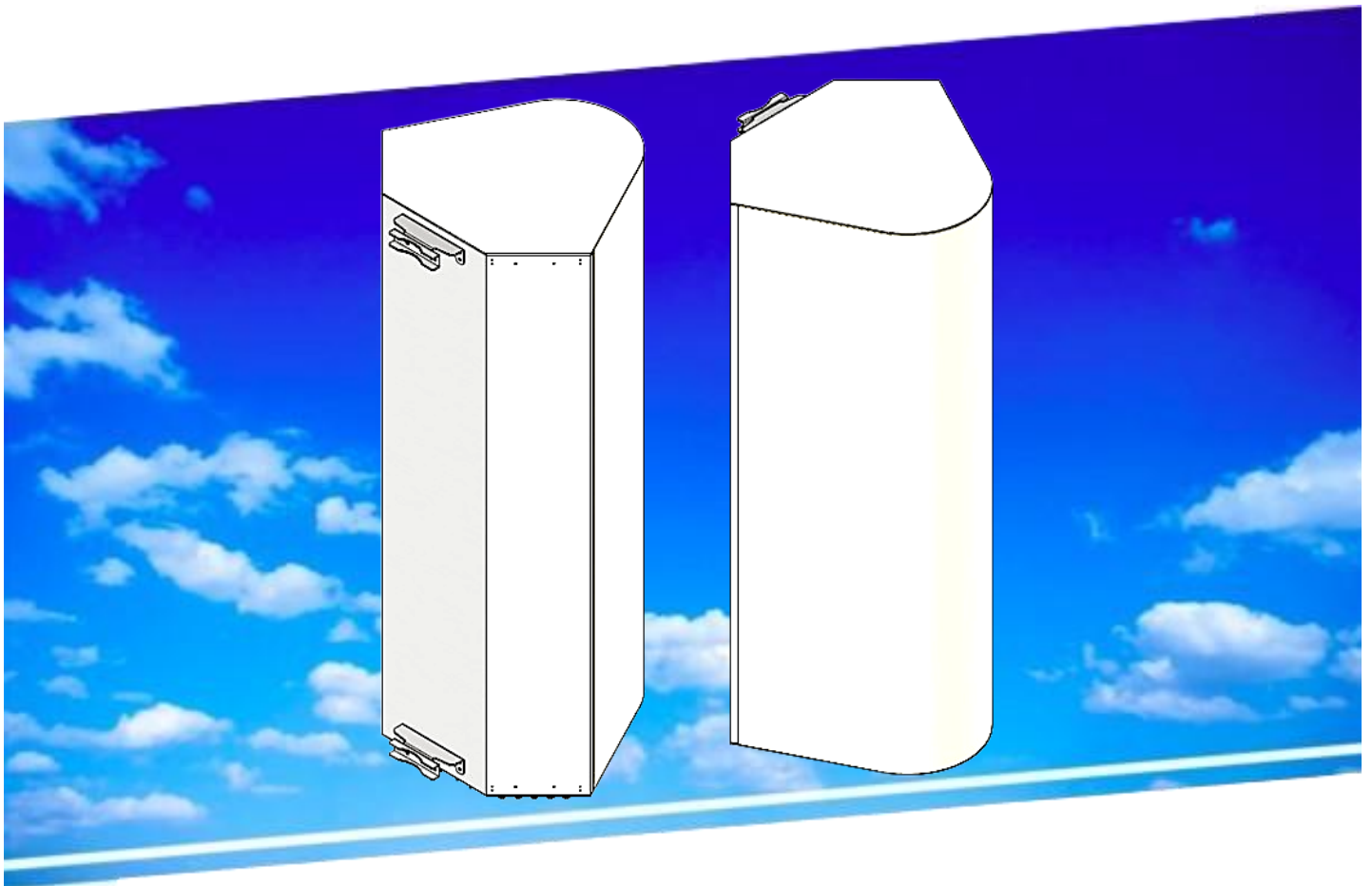


Table of Contents

1.00 Pattern diagram

- 1.10 High band
 - 1.11 Horizontal pattern
 - 1.12 Vertical pattern
- 1.20 Low band
 - 1.21 Horizontal pattern
 - 1.22 Vertical pattern

2.00 Beams and connectors

- 2.10 Plan view resultant beam layout
- 2.20 Connector port table
- 2.30 Connector detail
- 2.40 Connector layout

3.00 RET operations and information's

- 3.10 Example of serial numbers label reference
 - 3.11 Controller display
 - 3.12 Beam numbers and ports number display

4.00 Bracket installation

- 4.10 Bolts and nuts / Tools
 - 4.11 Bolts and nuts
 - 4.12 Bracket
- 4.20 Tools requirement
 - 4.21 Adjustable spanner
 - 4.22 M12 spanner
- 4.30 Bracket spacing and installation sample

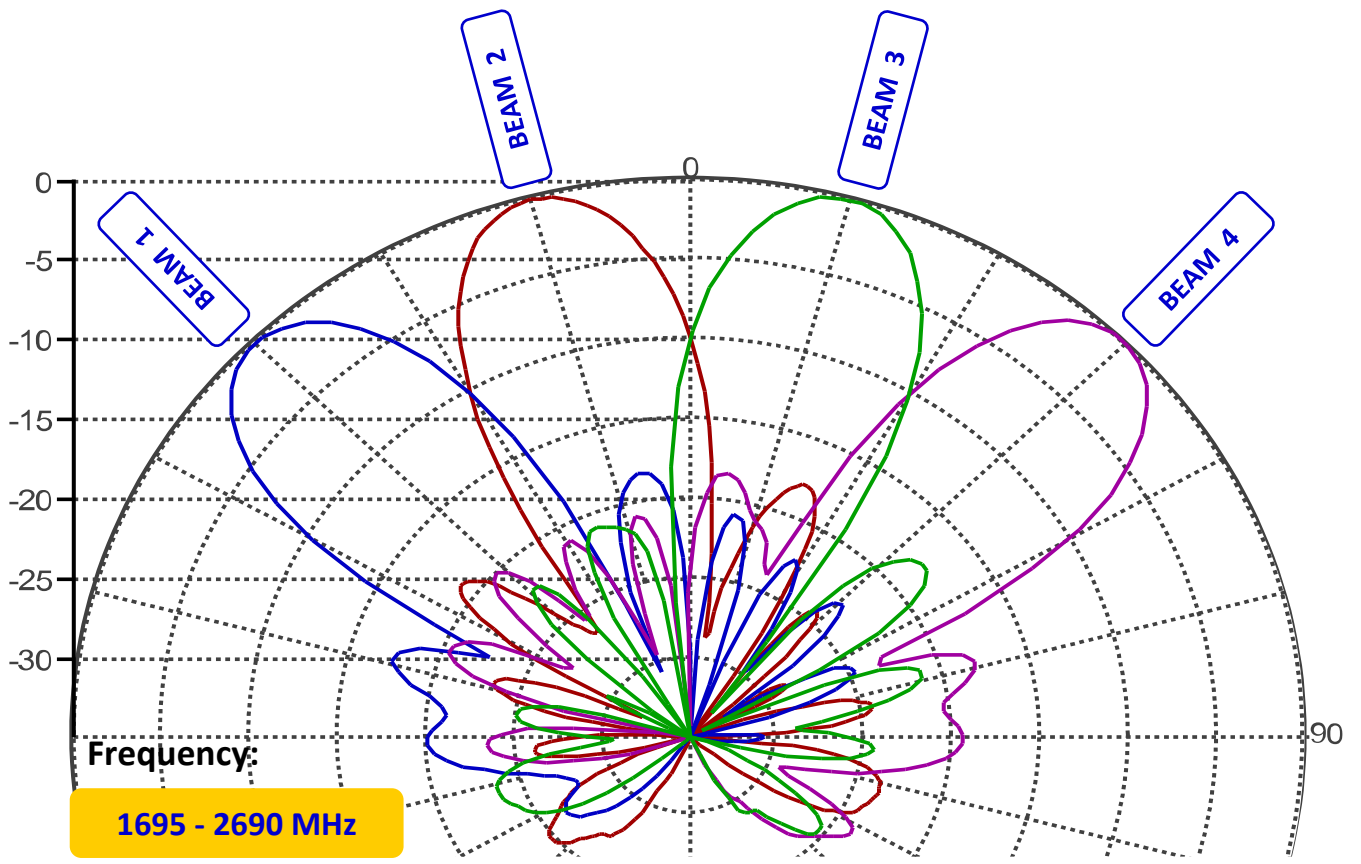
Revision History:

<u>Date</u>	<u>Description</u>	<u>Rev By</u>	<u>Check By</u>	<u>Rev no</u>
18-Nov-2024	Initial Release	RL	Pavel	0

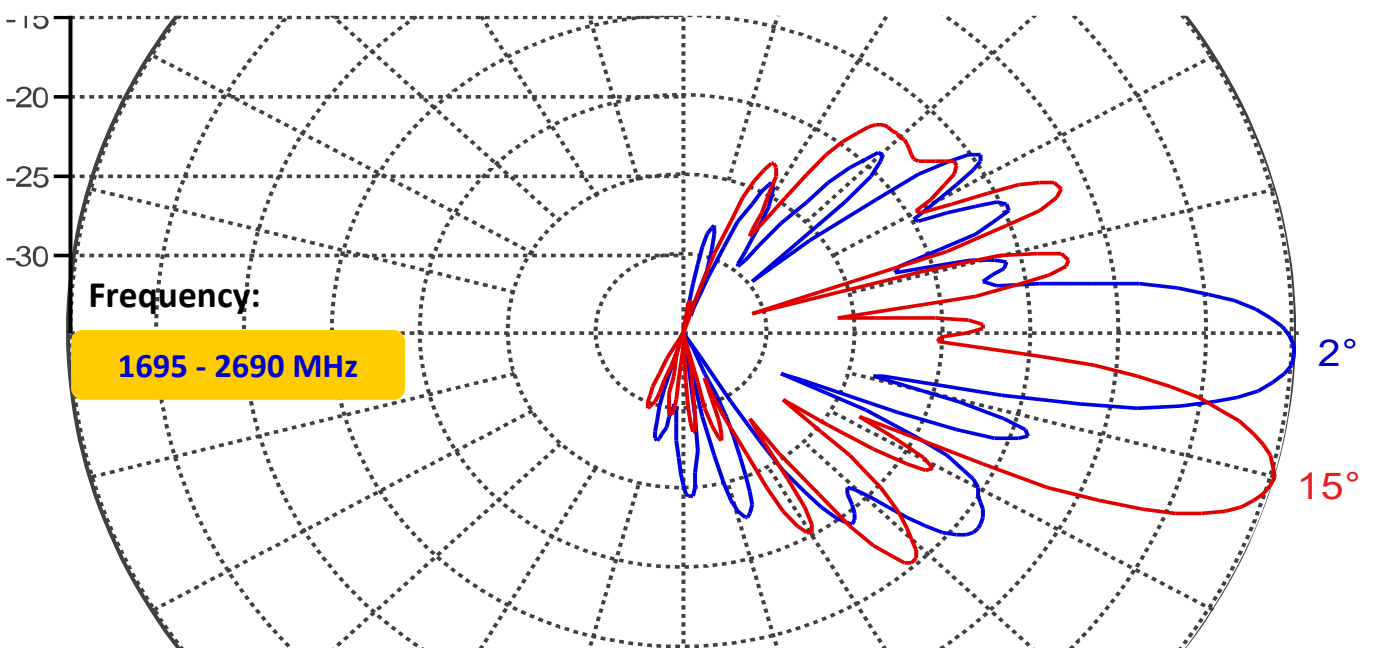
1.00 Pattern diagram

1.10 High band

1.11 Horizontal pattern

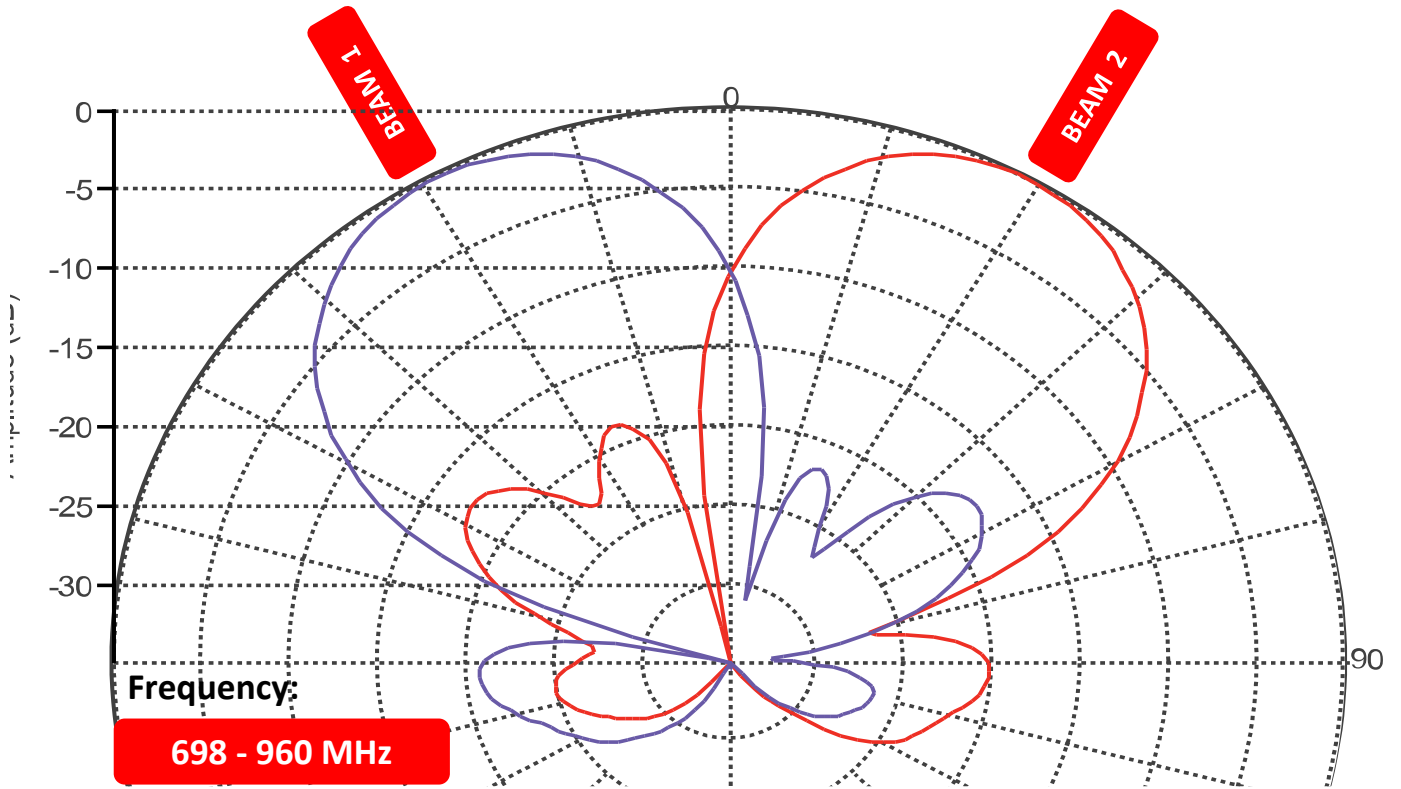


1.12 Vertical pattern

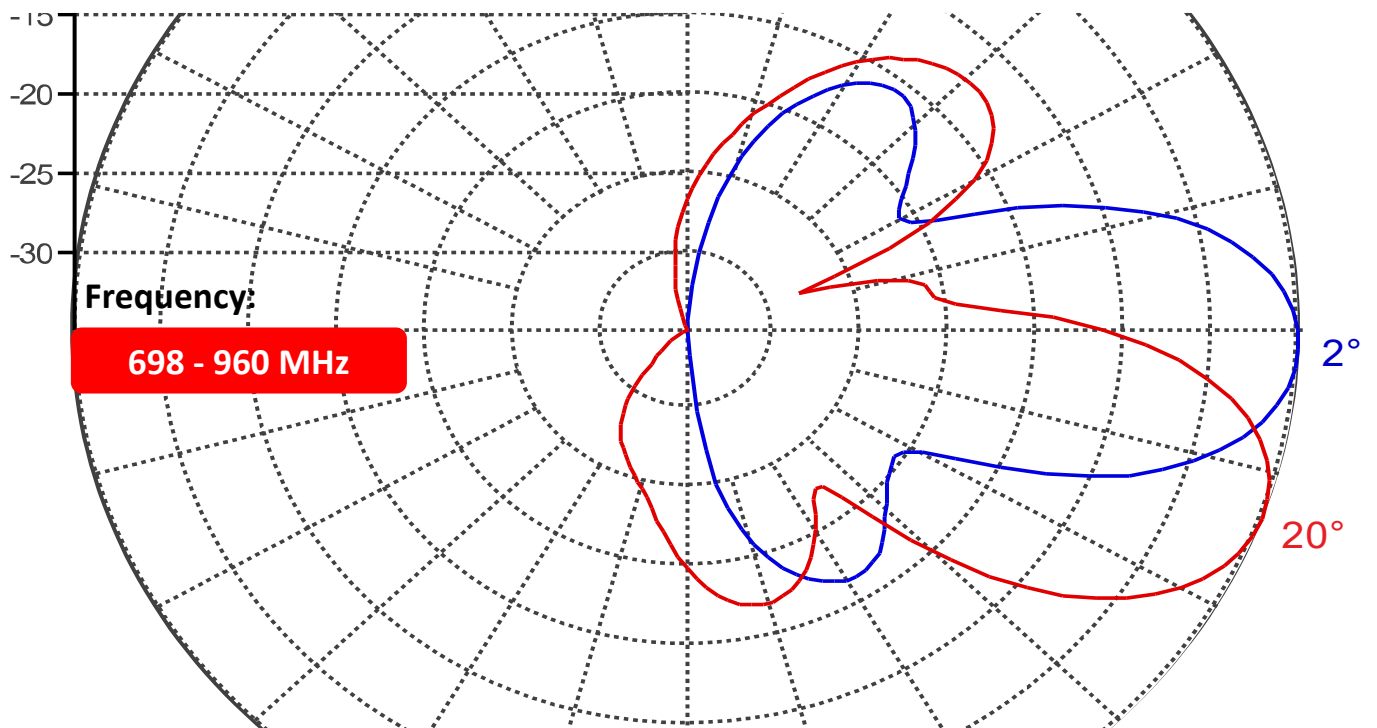


1.20 Low band

1.21 Horizontal pattern

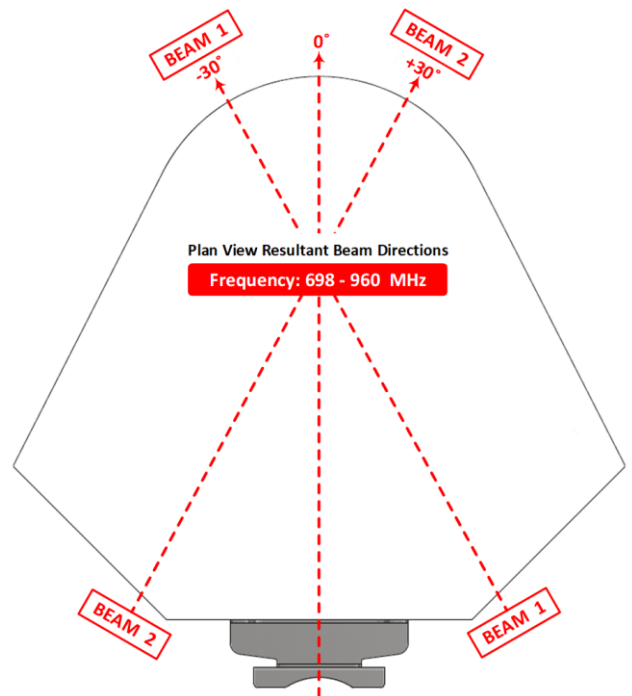
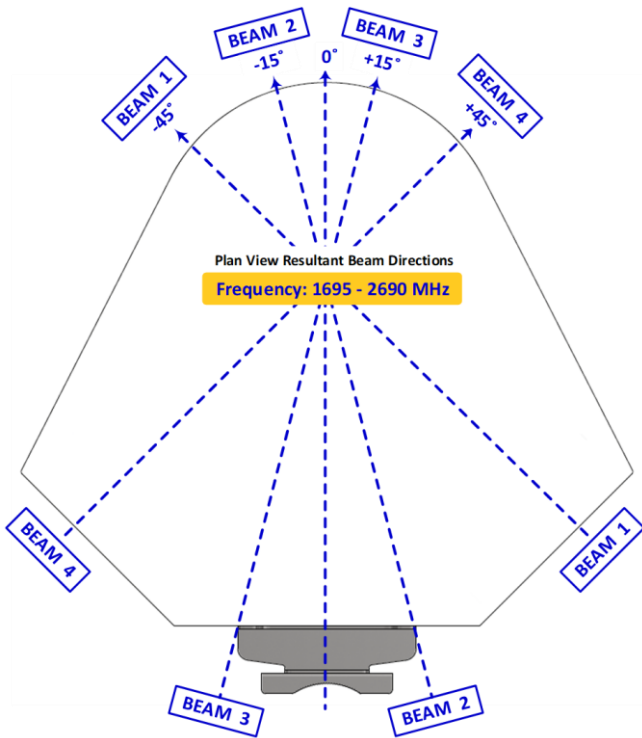


1.22 Vertical pattern



2.00 Beams and connectors

2.10 Plan view resultant beam layout

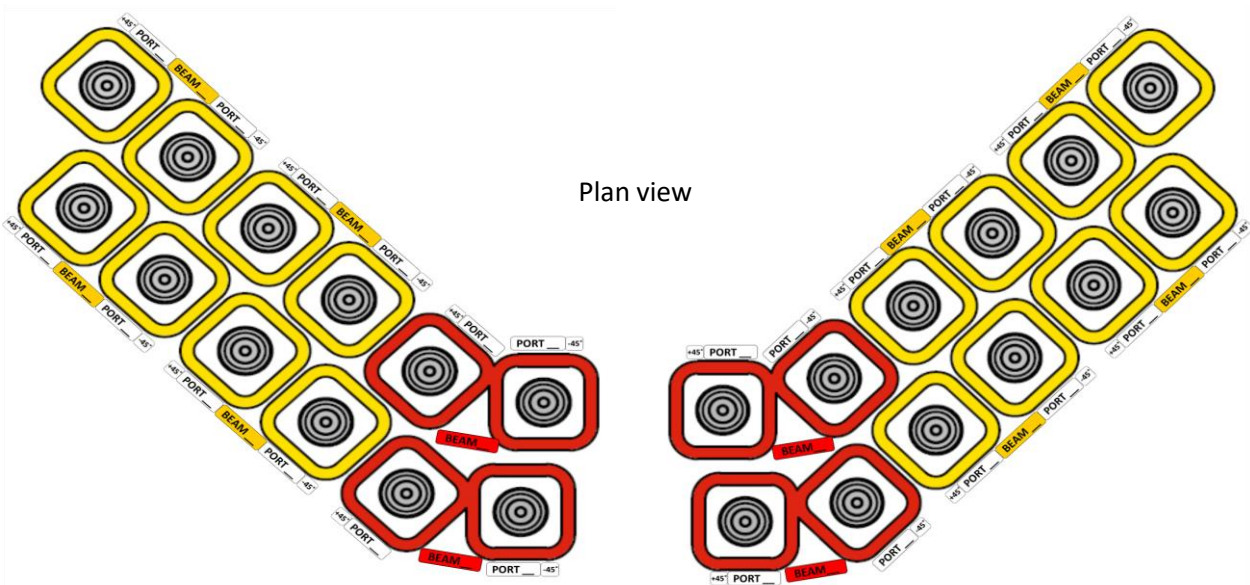


2.20 Connector port table

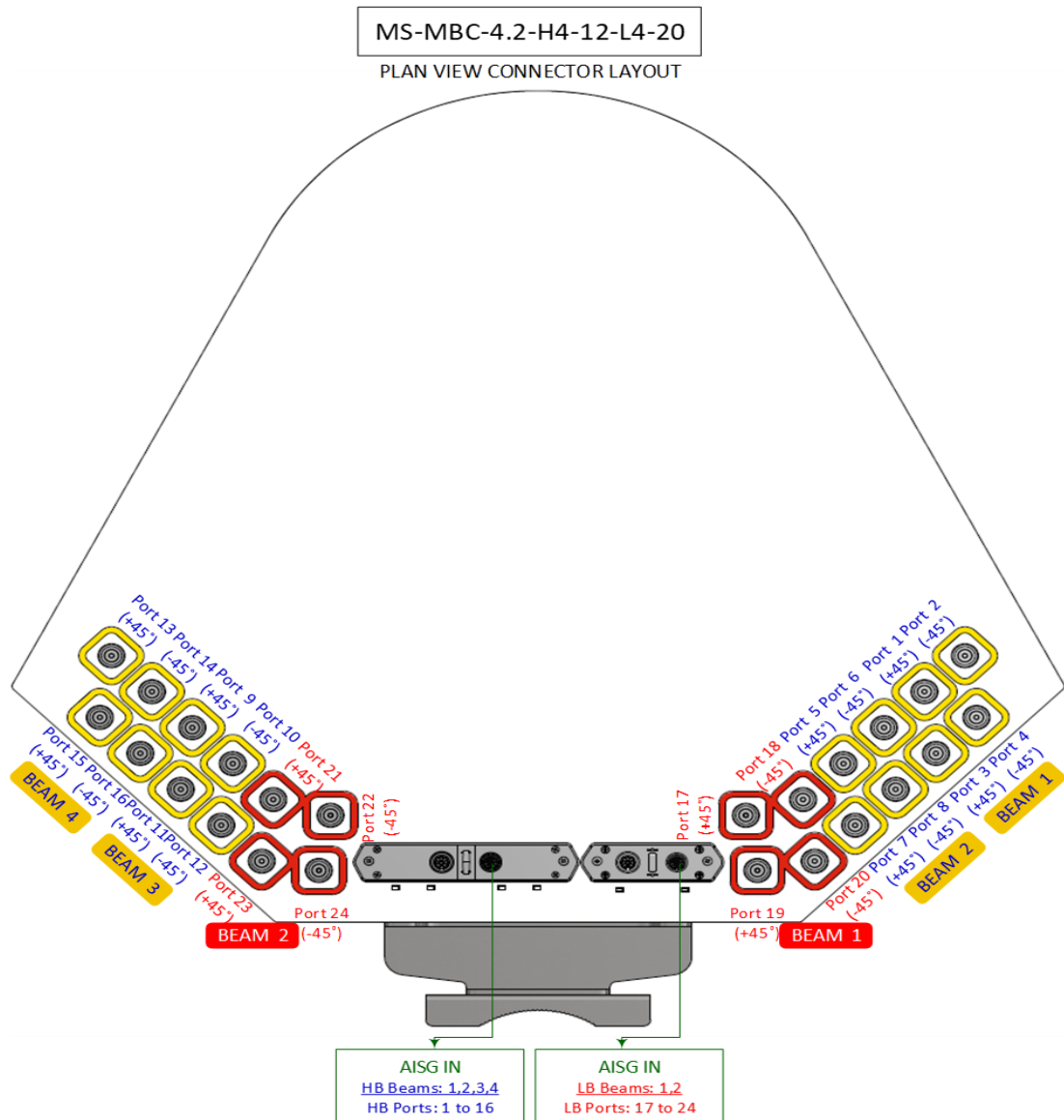
BEAM 4		BEAM 3		BEAM 2	
Port 13 (+45°)	Port 14 (-45°)	Port 9 (+45°)	Port 10 (-45°)	Port 21 (+45°)	Port 22 (-45°)
Port 15 (+45°)	Port 16 (-45°)	Port 11 (+45°)	Port 12 (-45°)	Port 23 (+45°)	Port 24 (-45°)

BEAM 1		BEAM 2		BEAM 1	
Port 17 (+45°)	Port 18 (-45°)	Port 5 (+45°)	Port 6 (-45°)	Port 1 (+45°)	Port 2 (-45°)
Port 19 (+45°)	Port 20 (-45°)	Port 7 (+45°)	Port 8 (-45°)	Port 3 (+45°)	Port 4 (-45°)

2.30 Connector detail



2.40 Connector layout



3.00 RET operations and information's

A standard AISG 2.0 compliant cable (not included) is used to connect the MDCU to the AISG interface control. 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

MATSING[®]
LENS TECHNOLOGY ENABLED

Model No. : MS-MBC-4.2-H4-12-L4-20
 Serial No. : MS-MBC-4.2-H4-12-L4-20-00001
 Frequency: 698 - 960 MHz
 1695 - 2690MHz

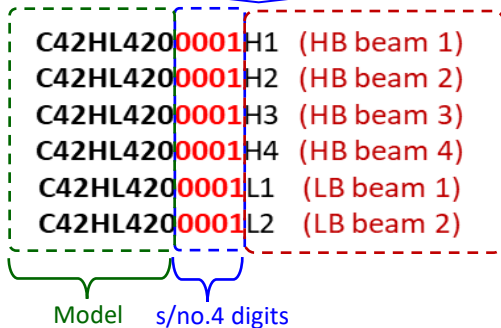
RET Controller Serial #
 MBC42HL4200001H1
 MBC42HL4200001H2
 MBC42HL4200001H3
 MBC42HL4200001H4
 MBC42HL4200001L1
 MBC42HL4200001L2

Delete a zero in front if the serial number is more than 4 digits.

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

3.11 Controller display

NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link
1	1	MS	C42HL4200001H1	9782.00A	5.04	5.0.4	6	Single RET	2	Connect	Link
2	2	MS	C42HL4200001H2	9782.00A	5.04	5.0.4	6	Single RET	2	Connect	Link
3	3	MS	C42HL4200001H3	9782.00A	5.04	5.0.4	6	Single RET	2	Connect	Link
4	4	MS	C42HL4200001H4	9782.00A	5.04	5.0.4	6	Single RET	2	Connect	Link
5	5	MS	C42HL4200001L1	9782.00A	5.1B	5.0.4	6	Single RET	2	Connect	Link
6	6	MS	C42HL4200001L2	9782.00A	5.1B	5.0.4	6	Single RET	2	Connect	Link



3.12 Beam numbers and ports number display

RET ID : MSC42HL4200001H1				BEAM 1	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 1 (+45°)	Port 2 (-45°)
1/1	HB 1 (Port 1, 2, 3, 4)	MSMBC42H412L420	MSMBC42H4L4200001	Port 3 (+45°)	Port 4 (-45°)

RET ID : MSC42HL4200001H2				BEAM 2	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 5 (+45°)	Port 6 (-45°)
1/1	HB 2 (Port 5, 6, 7, 8)	MSMBC42H412L420	MSMBC42H4L4200001	Port 7 (+45°)	Port 8 (-45°)

RET ID : MSC42HL4200001H3				BEAM 3	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 9 (+45°)	Port 10 (-45°)
1/1	HB 3 (Port 9, 10, 11, 12)	MSMBC42H412L420	MSMBC42H4L4200001	Port 11 (+45°)	Port 12 (-45°)

RET ID : MSC42HL4200001H4				BEAM 4	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 13 (+45°)	Port 14 (-45°)
1/1	HB 4 (Port 13, 14, 15, 16)	MSMBC42H412L420	MSMBC42H4L4200001	Port 15 (+45°)	Port 16 (-45°)

RET ID : MSC42HL4200001L1				BEAM 1	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 17 (+45°)	Port 18 (-45°)
1/1	LB 1 (Port 17, 18, 19, 20)	MSMBC42H412L420	MSMBC42H4L4200001	Port 19 (+45°)	Port 20 (-45°)

RET ID : MSC42HL4200001L2				BEAM 2	
RET Status and Control					
Antenna Information List					
NO	Sector ID	Ant Model	Ant Serial	Port 21 (+45°)	Port 22 (-45°)
1/1	LB 2 (Port 21, 22, 23, 24)	MSMBC42H412L420	MSMBC42H4L4200001	Port 23 (+45°)	Port 24 (-45°)

4.00 Bracket installation

4.10 Bolts and nuts / Tools

4.11 Bolts and nuts



Bracket Qty	Bolts		Nuts	
	Size	Qty	Size	Qty
2	M12 x 200mm	4	M12	10

4.12 Bracket



4.20 Tools requirement

4.21 Adjustable spanner



4.22 M12 spanner



4.30 Bracket spacing and installation sample

