

MATSING[®]

LENS TECHNOLOGY ENABLED

MS-MBC-3-L4-16

Instruction Manual

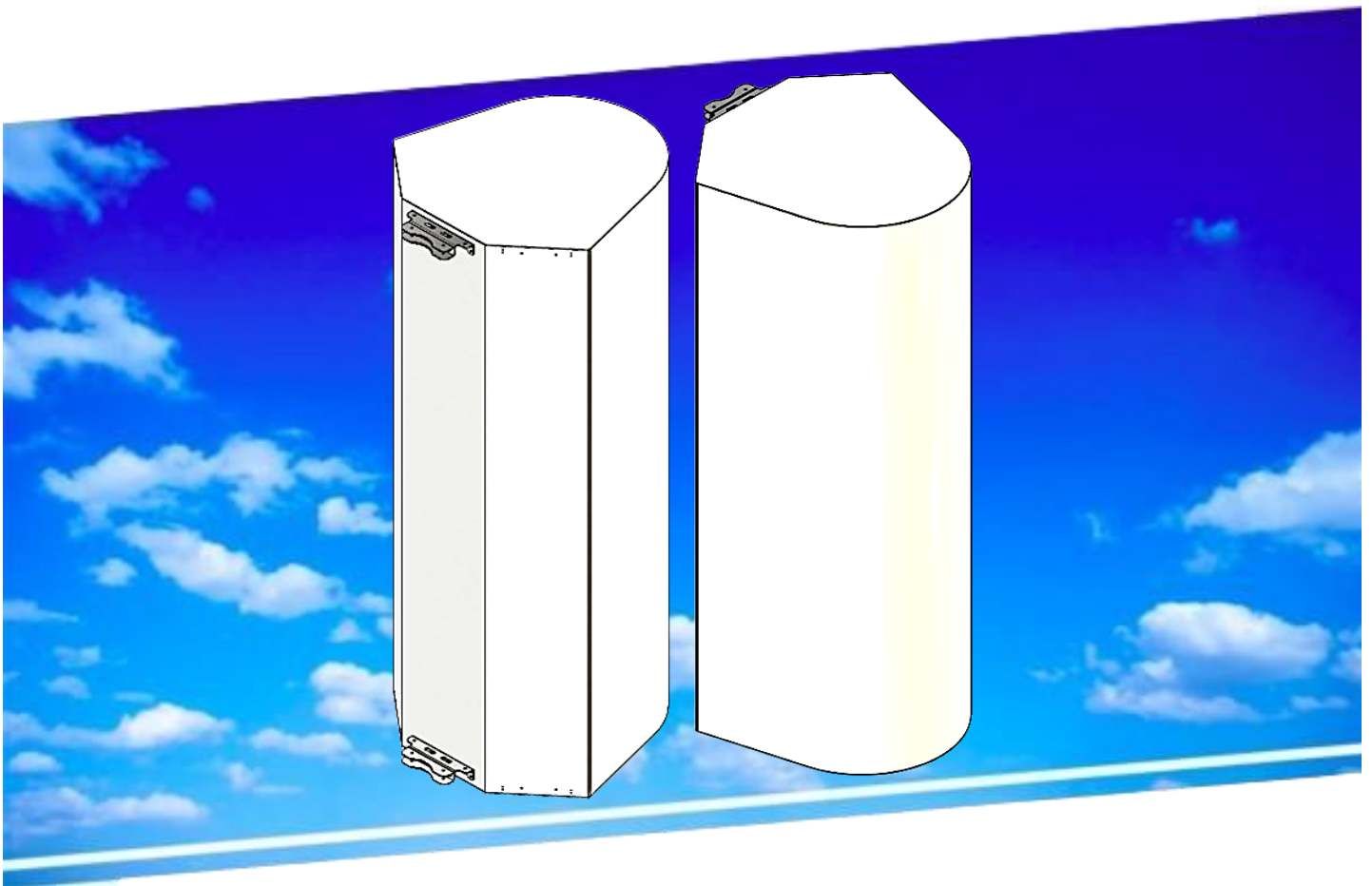


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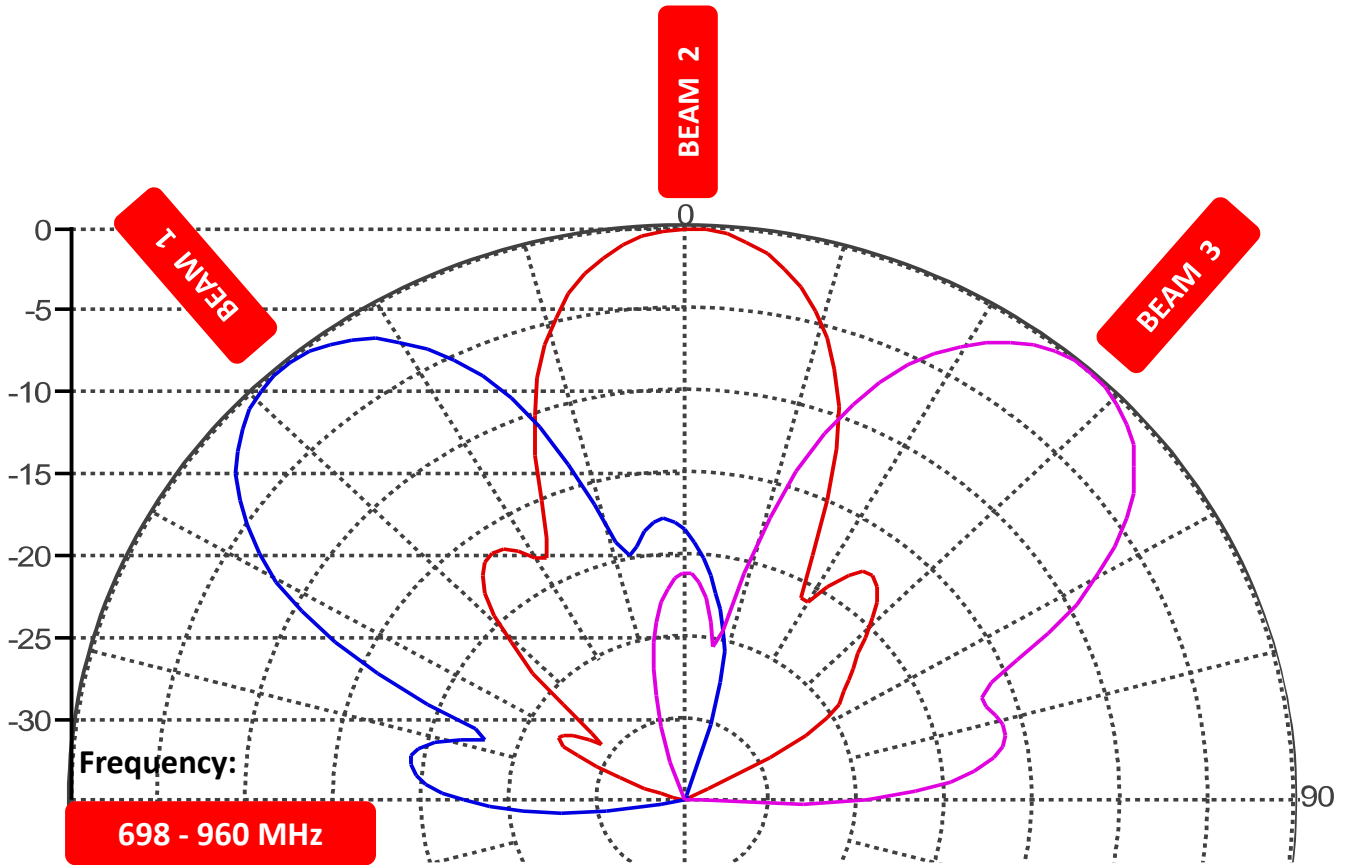
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Revision History:

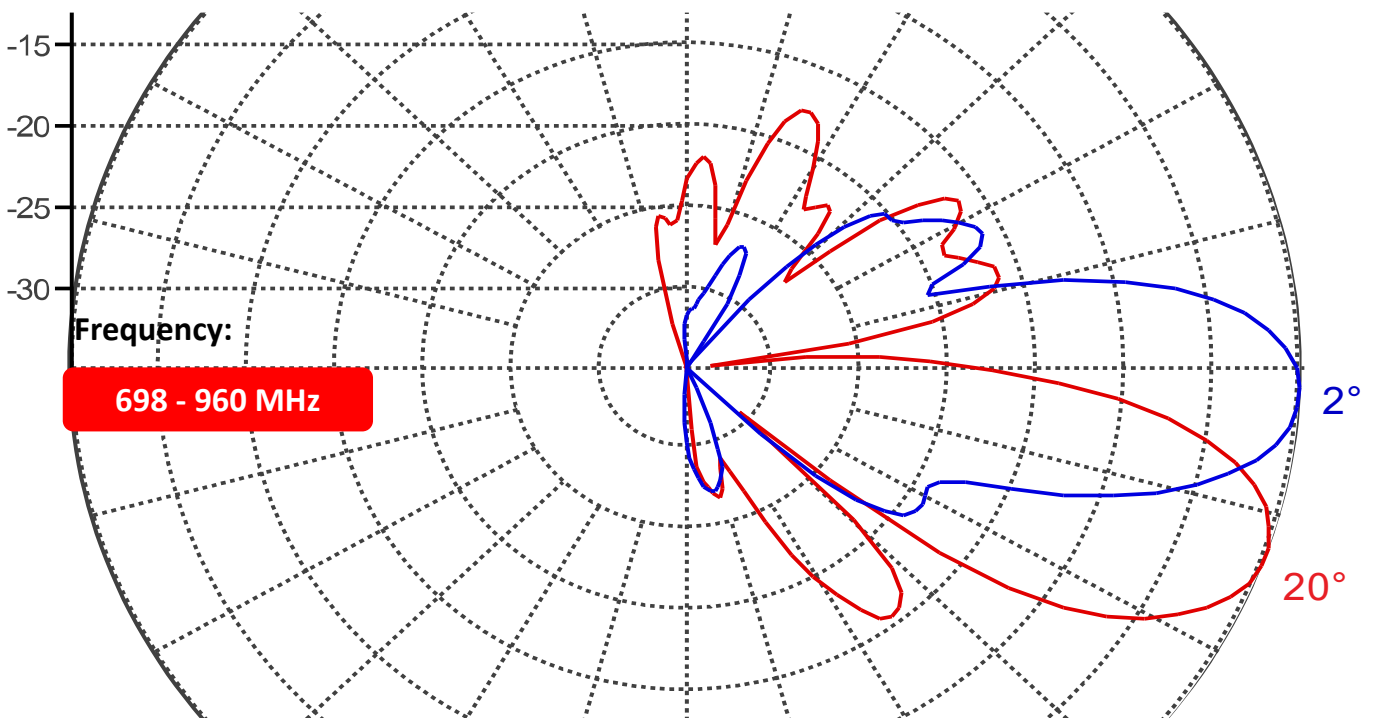
<u>Date</u>	<u>Description</u>	<u>Rev By</u>	<u>Check By</u>	<u>Rev no</u>
23-Jan-2025	Initial Release	RL	Pavel	0

1.00 Pattern diagram

1.10 Horizontal pattern

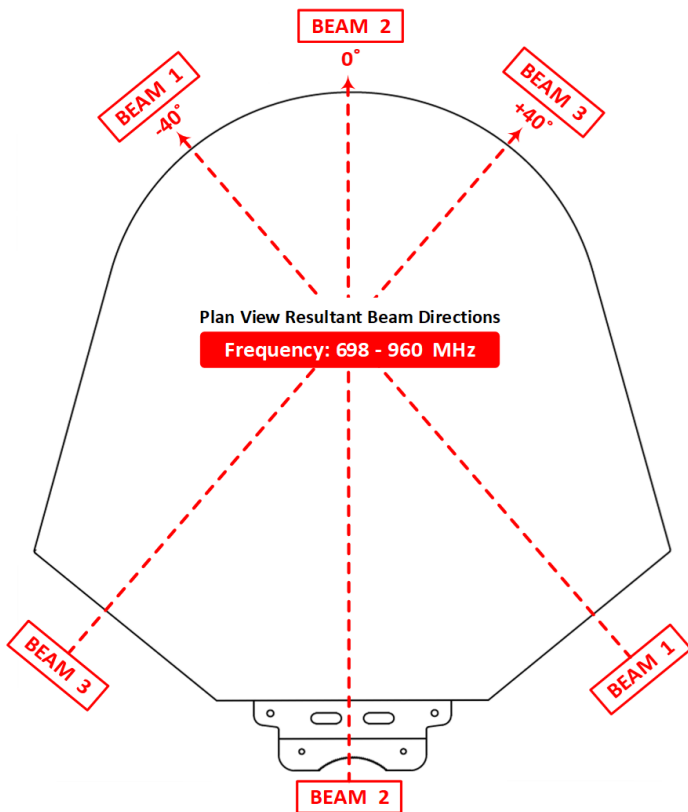


1.20 Vertical pattern



2.00 Beams and connectors

2.10 Plan view resultant beam layout



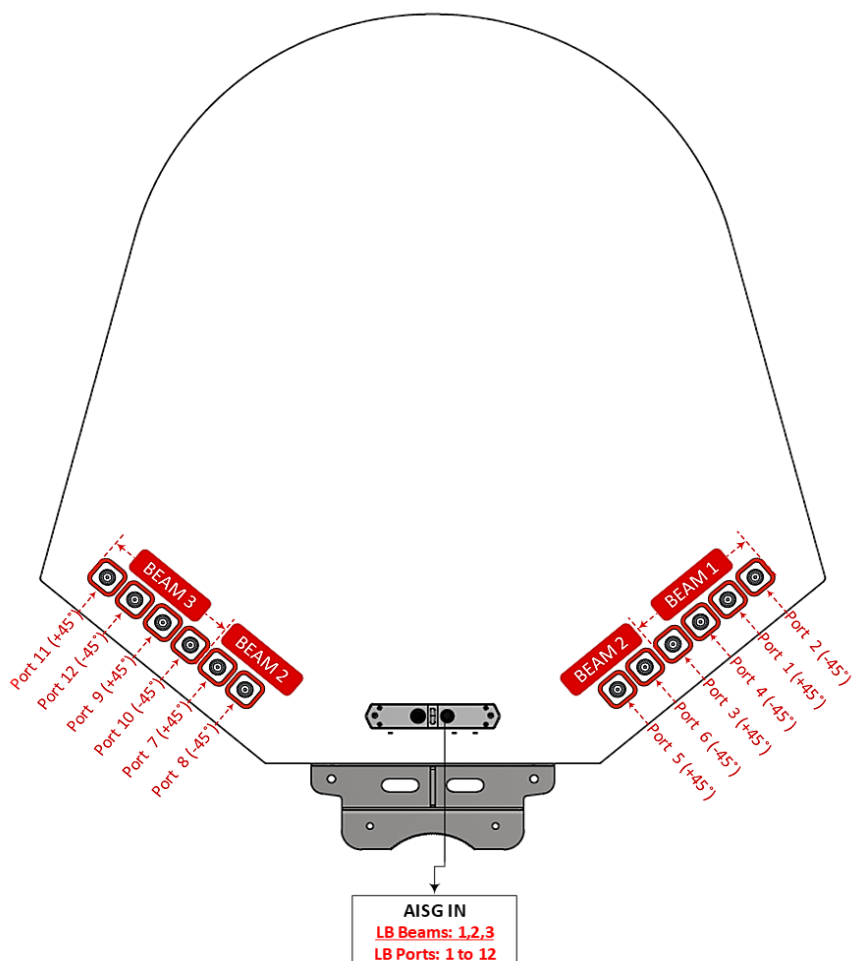
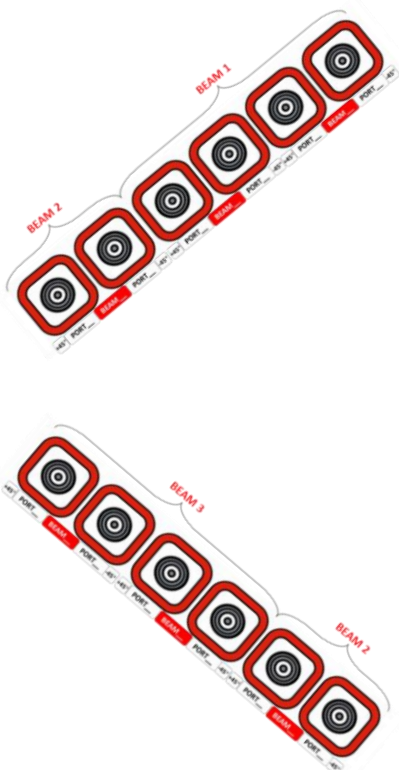
2.20 Connector port table

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

2.40 Connector layout

MS-MBC-3-L4-16
PLAN VIEW CONNECTOR LAYOUT


2.30 Connector detail



3.00 RET Operations and information

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 subunit SCAN to identify the RET elements.

3.10 Example of serial numbers label reference



Model No. : MS-MBC-3-L4-16
 Serial No. : MS-MBC-3-L4-16-00002
 Frequency: 698 - 960 MHz

RET Controller Serial #
 MBC3L4160002L1
 MBC3L4160002L2
 MBC3L4160002L3

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

ALD List											
NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link
1	1	MS	MBC3L4160002L1		5.04	5.0.4	6	Single RET	2	Connect	Link
2	2	MS	MBC3L4160002L2		5.04	5.0.4	6	Single RET	2	Connect	Link
3	3	MS	MBC3L4160002L3		5.04	5.0.4	6	Single RET	2	Connect	Link

MBC3L4160002L1 (LB beam 1)
 MBC3L4160002L2 (LB beam 2)
 MBC3L4160002L3 (LB beam 3)

Model s/no. 4 digits

3.12 Beam numbers and ports number display

RET ID : MSMBC3L4160002L1

RET Status and Control				BEAM 1			
Antenna Information List				Port 3	Port 4	Port 1	Port 2
NO	Sector ID	Ant Model	Ant Serial	(+45°)	(-45°)	(+45°)	(-45°)
1/1	Beam 1 (Port 1, 2, 3, 4)	MSMBC3L416	MSMBC3L416-0002				

RET ID : MSMBC3L4160002L2

RET Status and Control				BEAM 2			
Antenna Information List				Port 7	Port 8	Port 5	Port 6
NO	Sector ID	Ant Model	Ant Serial	(+45°)	(-45°)	(+45°)	(-45°)
1/1	Beam 2 (Port 5, 6, 7, 8)	MSMBC3L416	MSMBC3L416-0002				

RET ID : MSMBC3L4160002L3

RET Status and Control				BEAM 3			
Antenna Information List				Port 11	Port 12	Port 9	Port 10
NO	Sector ID	Ant Model	Ant Serial	(+45°)	(-45°)	(+45°)	(-45°)
1/1	Beam 3 (Port 9, 10, 11, 12)	MSMBC3L416	MSMBC3L416-0002				

4.00 Bracket installation

4.10 Bolts and nuts / Tools

4.11 Bolts and nuts



4.12 Bracket



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

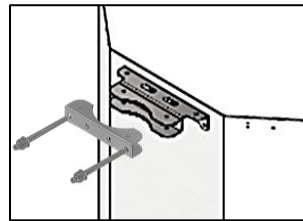
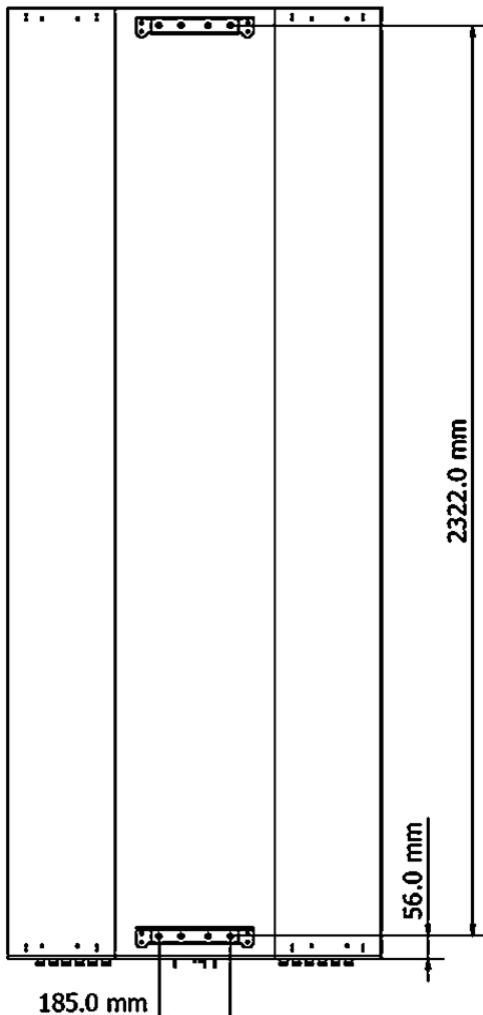
4.20 Tools requirement

4.21 Adjustable spanner

4.22 M12 spanner



4.30 Bracket spacing and installation sample



Before installation

