

Re-Broadcastion Repeater System

FREQUENCY SPECIFICATIONS

FM Radio Rebroadcast System | 76~95MHz/88~108MHz

FREQUENCY SPECIFICATIONS

DAB/DMB Repeater | 174~216MHz

FREQUENCY SPECIFICATIONS

FM Emergency Broadcast | 76~95MHz/88~108MHz



MFDR – 2J0

World RF Co., Ltd
www.tunnel-rebroadcast.com
www.tunnel-rebroadcast.jp



Re-Broadcasting Repeater System

MAIN FUNCTION PROCESSER

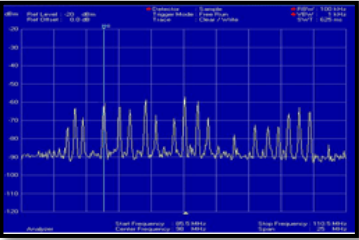
FM radio Rebroadcast system(Main Function Processer)

Product Sketch .

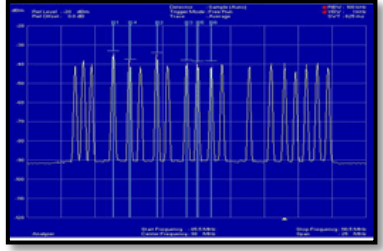
FM received antenna



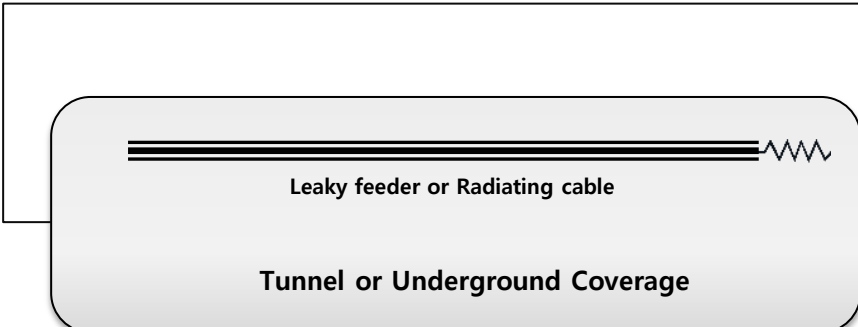
FM radio station received on-air(multi-channel)



FM DSP leveling processing waveform(multi-channel)



FM Radio Rebroadcast system(RFR-2J0)

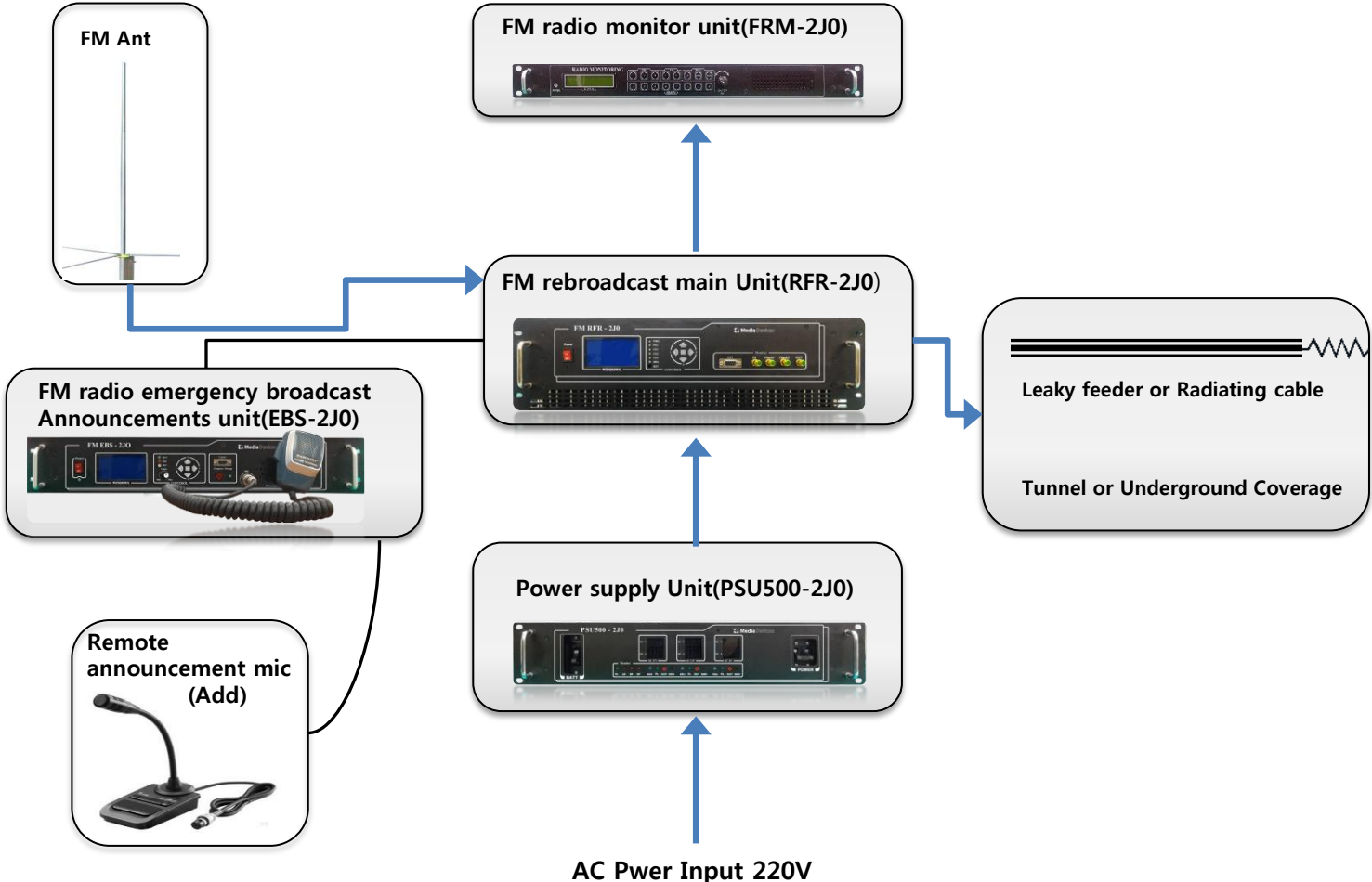


Item	Spec
Frequency band	88~108MHz
Channel Band Width	200KHz
Input Level	-75 ~ -45dBm
Max Output Power	+35dBm
Max Gain	110dB
Max Channel	20Ch
Channel Equalization	±10dB
Impedance	50Ω
AC Power Input	AC 220V

Re-Broadcasting Repeater System

FM radio Rebroadcast system (Main & Sub Unit Configuration)

Product Sketch .

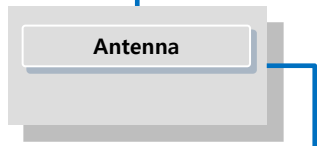
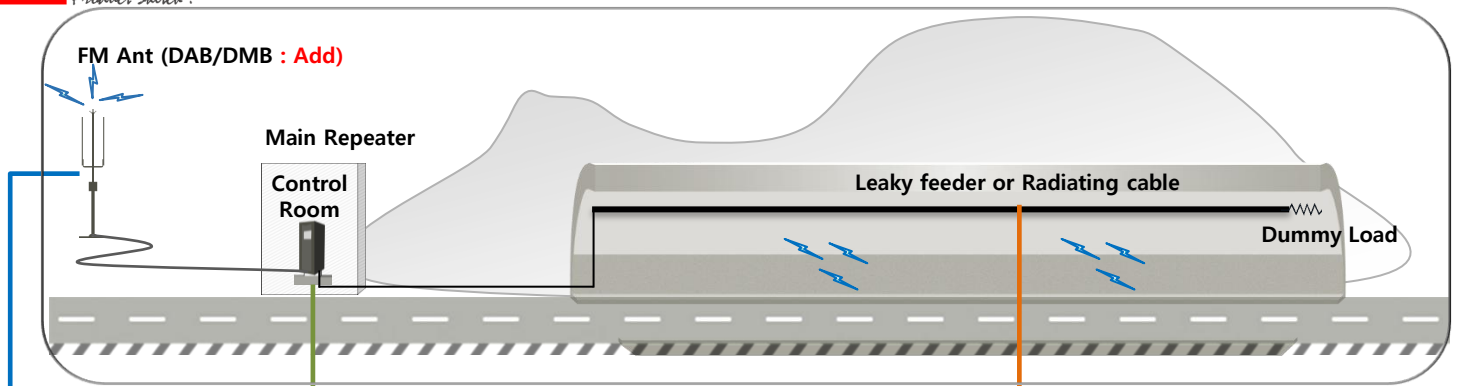


Re-Broadcasting Repeater System

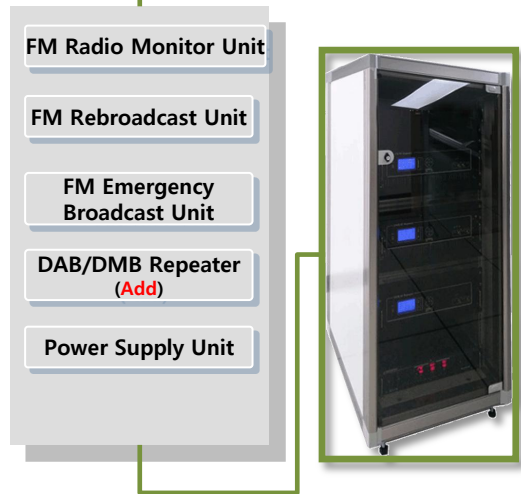
MFDR – 2J0

Road Tunnel FM Radio Rebroadcast System

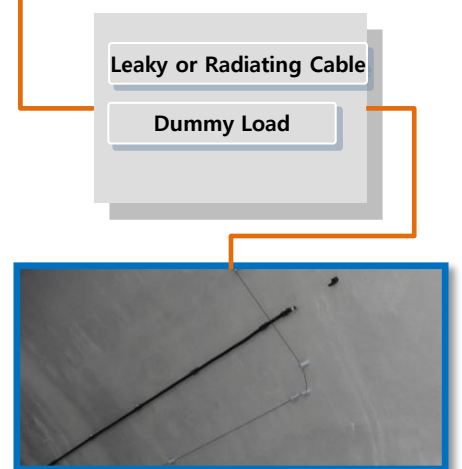
Product Sketch .



[Antenna]



[Main Repeater]



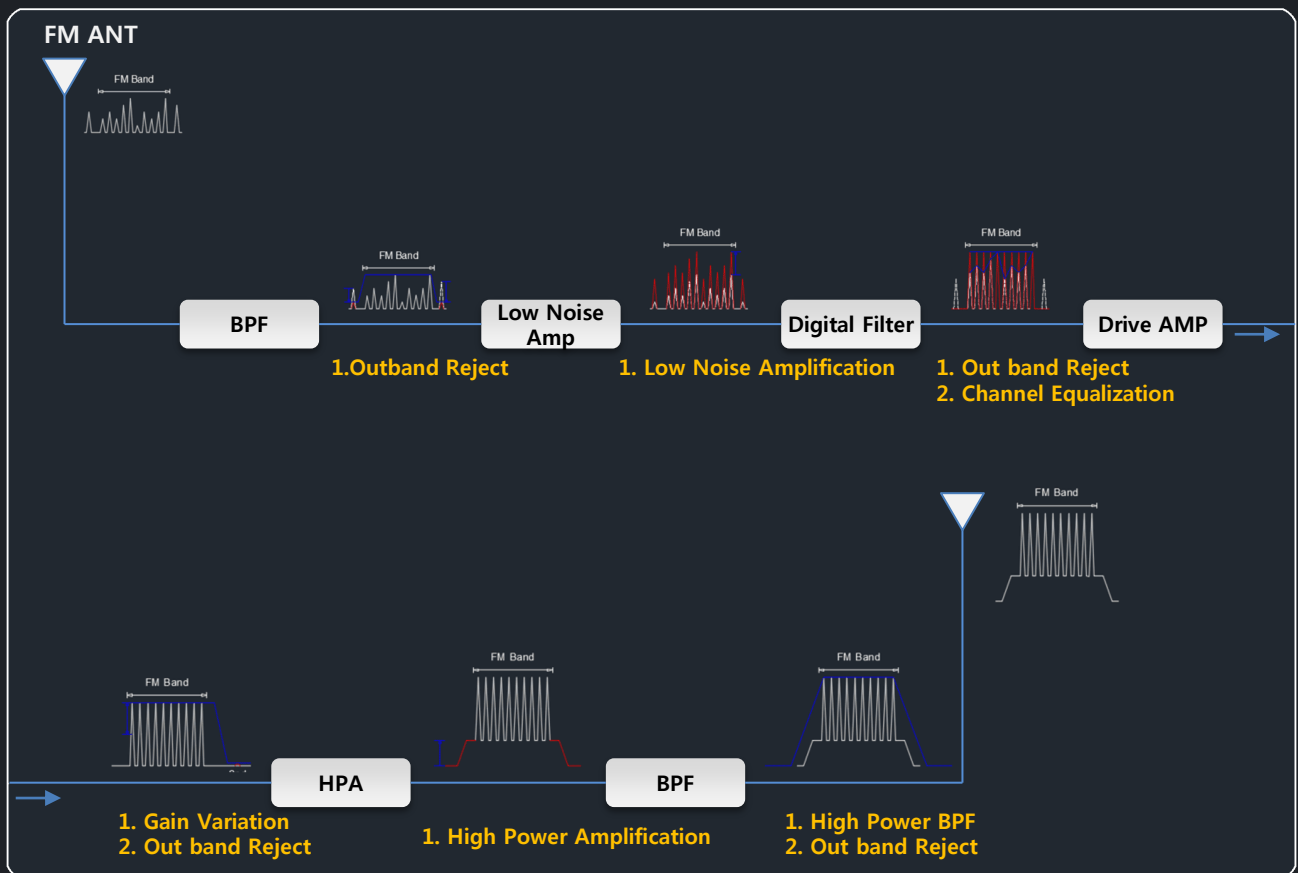
[Leaky or Radiating Cable]

Re-Broadcasting Repeater System

FM Signal Processing Block Diagram

Product Sketch

FM Radio Band (Multi-Channel)

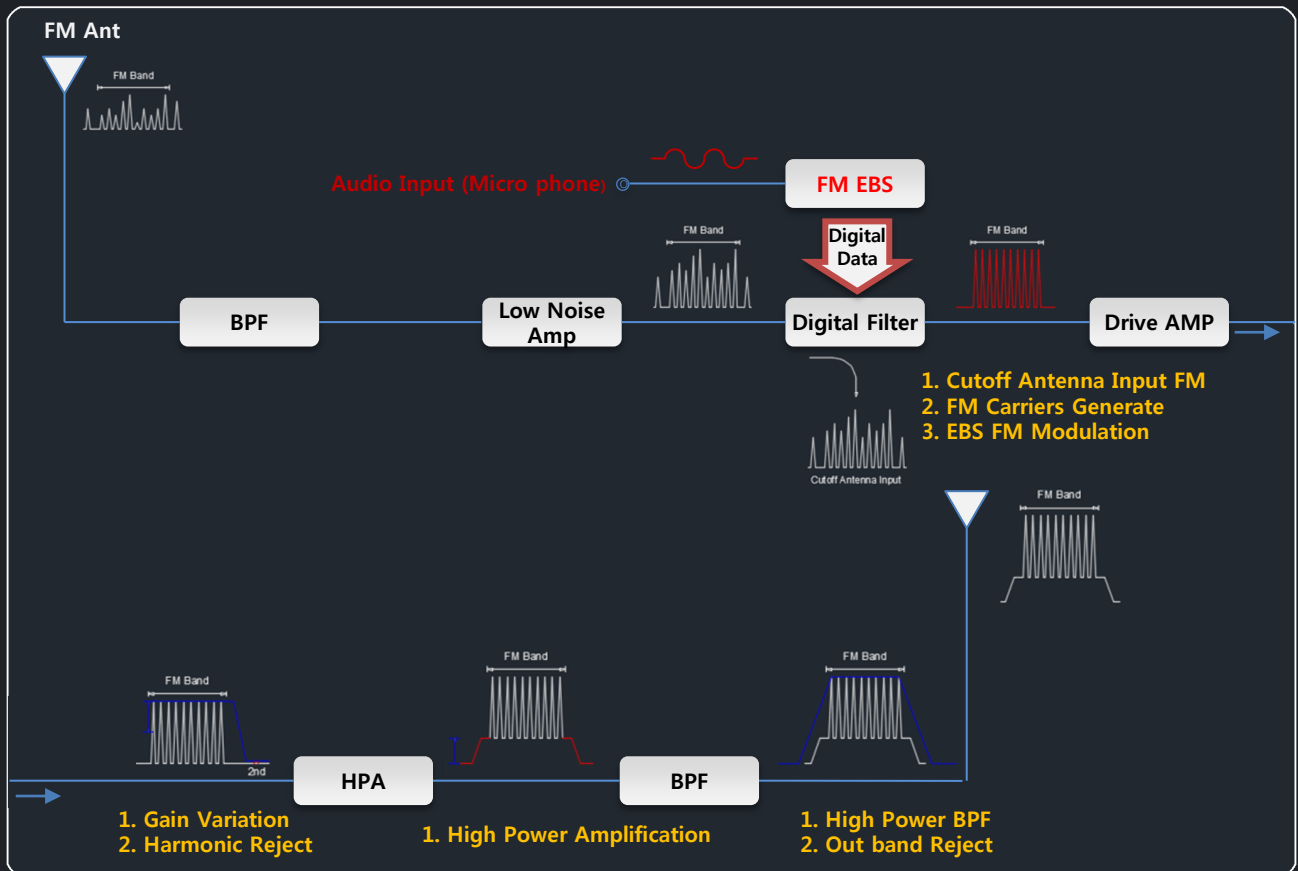


Re-Broadcasting Repeater System

FM Signal Processing Block Diagram

Product Sketch

FM Emergency Broadcast Unit(multi- channel)



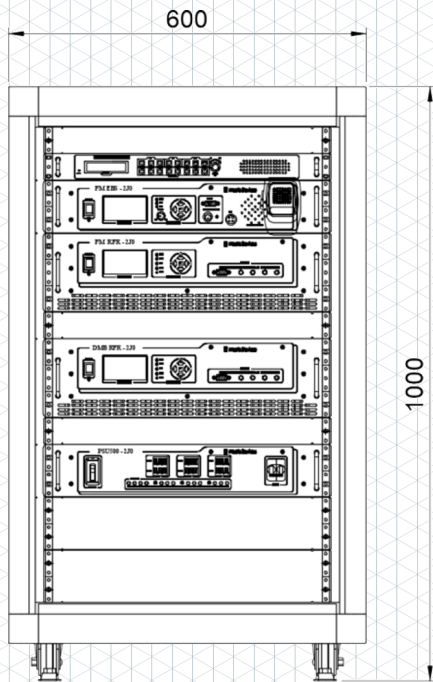
FM/DAB/DMB REPEATER SYSTEM

Re-Broadcasting Repeater System

[FM/DAB/DMB Repeater System- MFDR-2J0]



Product Sketch



FRONT VIEW

Standard Rack Dimensions

Item	Specification
Rack Cabinet	600(W)*1000(H)*750(D)
	STANDARD 19" RACK
	INDOOR TYPE

MFDR – 2J0

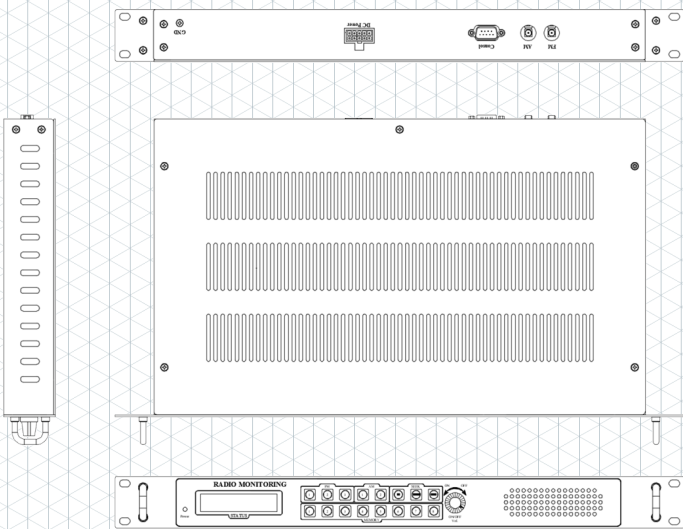
FM RADIO MONITOR UNIT

Re-Broadcasting Repeater System

[FM Radio Monitor Unit – FRM-2J0]



Product Sketch



PRODUCT SPEC

Item	Specification
Frequency band	88~108Mhz
Adjust Channel Step	200KHz
Memory Channel	12Ch
Input Level	-60~-30dBm
FM Input Port	SMA
Input DC Port	2 Pin MS Connector
Debug Port	D-Sub 9Pin
DC Power nput	DC 12V

FRM – 2J0

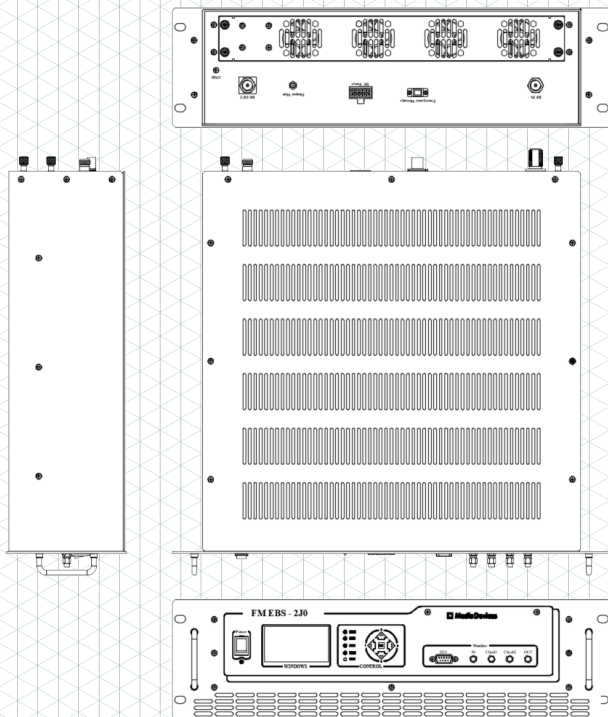
FM RADIO REBROADCAST UNIT

Re-Broadcasting Repeater System

[FM Radio Rebroadcast Unit- RFR-2J0]



Product Sketch .



PRODUCT SPEC

Item	Specification
Frequency band	88~108MHz
Channel Band Width	200KHz
Input Level	-75 ~ -45dBm
Max Output Power	+35dBm
Max Gain	110dB
Max Channel	20Ch
Channel Equalization	±10dB
Impedance	50Ω
AC Power Input	AC 220V

FM RFR – 2J0

DAB/DMB REPEATER UNIT

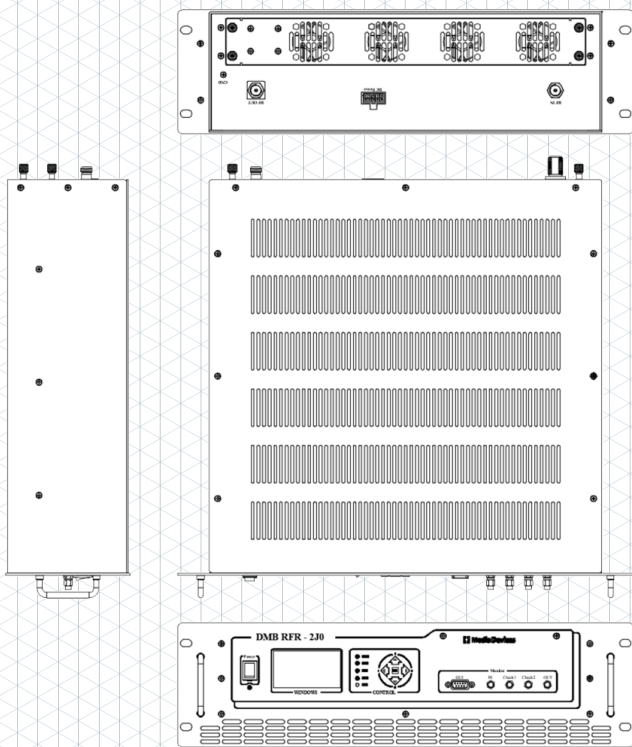
Re-Broadcasting Repeater System



[DAB/DMB Repeater Unit- RFR-2J0]



Product Sketch .



PRODUCT SPEC

Item	Specification
Frequency band	174~216MHz
Band Width	The band width
Input Level	-75 ~ -45dBm
Max Output Power	+35dBm
Max Gain	110dB
Max Channel	System band width
Channel Equalization	±10dB
Impedance	50Ω
AC Power Input	AC 220V

DAB/DMB RFR – 2J0

FM EMERGENCY BROADCAST UNIT

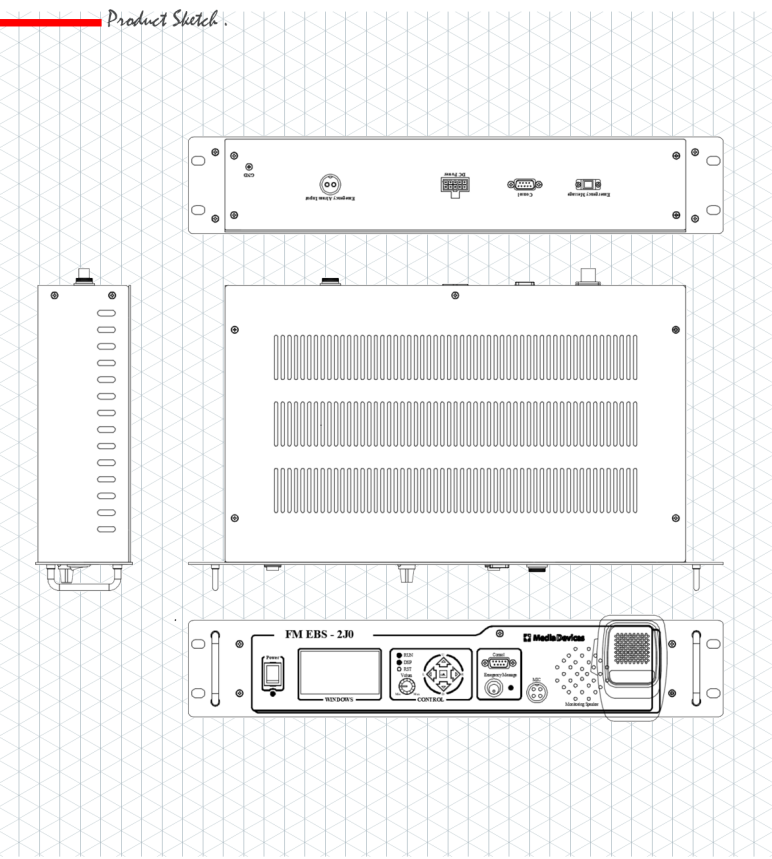
Re-Broadcasting Repeater System



[FM Emergency Broadcast Unit – EBS-2J0]



Product Sketch



PRODUCT SPEC

Item	Specification
Frequency band	88~108MHZ
Output Data	Micro phone Voice
	Recording Message
	Ext USB Message
Output Monitor	Internal Speaker
Operation Current	4A
Alarm Input Port	2 Pin MS Connector
Debug Port	D-Sub 9Pin
DC Power input	DC 12V

FM EBS – 2J0



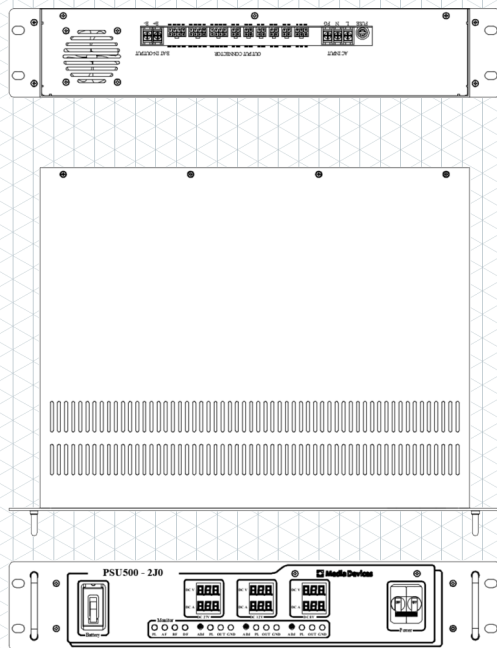
POWER SUPPLY UNIT

Re-Broadcasting Repeater System

[Power Supply Unit- PSU500-2J0]



Product Sketch



PRODUCT SPEC

Item	Specification
Input Voltage	AC 220V
Output Voltage	DC 12V / DC 27V
Charge Voltage	DC 28.5V / 5A
Output Voltage Trans	1V
Usage Fluctuation	24V 100Ah

PSU500 – 2J0

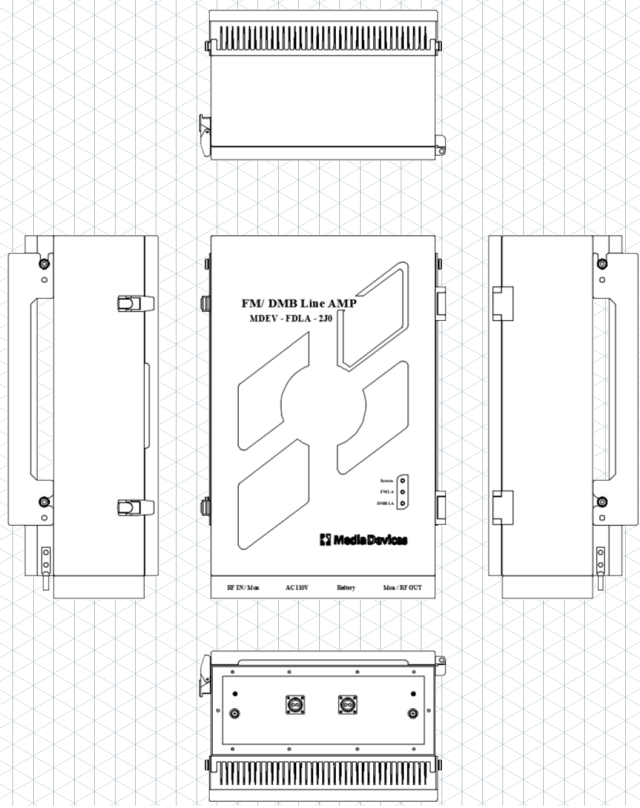
FM/DAB/DMB LINE AMPLIFIER

Re-Broadcasting Repeater System



[FM/DAB/DMB Line Amplifier – FDLA-2J0]

Product Sketch



PRODUCT SPEC

Item	Specification
Frequency	88~108MHz /174~216MHz(Add)
Power Input	DC 12V / DC 27V or AC 220V
Type	Coaxial Cable or Fiber Optic Cable
Dimensions	Follow-up

FDLA – 2J0

Tunnel & In Building Apply SYSTEM DIAGRAM

Re-Broadcasting Repeater System



Product Sketch .

