



# DAS DESIGN SHEET

## Uni and Bi-Directional Class B Signal Booster Systems

The following information is required for the design of a DAS solution that has not had a site survey performed. Project schedules depend entirely on the complexity of the design; however, turn around for design proposal and quotation is normally less than five (5) business days after the initial request is received and this form is submitted.

Include the following information when submitting your documentation:

- EMR CORP DAS DESIGN SHEET completed in full (as much information as possible).
- Floor plans of all areas requiring coverage (telecom plans recommended, must be to scale, electronic format in CAD or PDF, verifying floor plans are current).
- All emails must have the Project Name in the "subject" or "reference" line. Do not combine multiple projects in emails.

### Customer Information

Company Name: \_\_\_\_\_

Primary Contact Name: \_\_\_\_\_

Contact Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone Number(s) Office: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email Address: \_\_\_\_\_

Site Designation: \_\_\_\_\_

Additional Contact Info: Include additional contact names, phone numbers, emails, etc in the box below.

## Technical Information

Specify services to be enhanced:

- Commercial Wireless Services
- Public Safety VHF
- Public Safety UHF
- Public Safety 700 MHz
- Public Safety 800 MHz
- Other: \_\_\_\_\_

Include frequencies, technologies, and channel count information for all services at end of document.

Define scope of work to be performed by EMR:

- Budgetary
- Design / Full Bill Of Materials

List of Deliverables provided by EMR:

Will Base Transceiver Station (BTS) be used?

- Yes
- No

Outdoor signal strength (roof level preferably or where donor antenna is to be installed) and name/model of equipment used to test:

Repeater ERP: \_\_\_\_\_ dBm

Test Equipment Used: \_\_\_\_\_

Distance between repeater site and BDA donor antenna: \_\_\_\_\_

Battery Backup (BBU) Required:

- Yes
- No

Indoor RF measurements available:

- Yes
- No

BDA Options:

- High Gain Upgrade
- NFPA Compliant Alarm and Monitoring
- Battery Backup (BBU):
  - 12 Hour
  - 24 Hour
- Fiber Optic Data

Number of Fiber Remotes Required: \_\_\_\_\_

Note: High Gain should only be considered when needed.

## **Building Information**

Building Type: \_\_\_\_\_

(Open Warehouse, Airport, Mall, Newer Office  
Building, Hotel, Parking Garage, Hospital, Older Gov't  
Building, University, Courthouse, Prison):

Path Loss Exponent (if known): \_\_\_\_\_ dB

Current construction stage of the building:  Completed  
 In Process

Expected project award date: \_\_\_\_\_  
( mm / dd / yyyy )

Composition of exterior roof: \_\_\_\_\_

Power Requirements (indicate voltage):  AC \_\_\_\_\_  
 DC \_\_\_\_\_

Fiber Requirements: Does fiber already exist?  
 No  
 Yes  
 Single Mode  Multi-Mode  
How many strands? \_\_\_\_\_

Is fiber available from the head end to the remote units (as  
indicated in floor plans)?

No  
 Yes

List existing system(s) currently installed  
in the building (or any other system(s)  
operating on a specific radio frequency):

### **Include the following information on the roof and floor plans of the building(s):**

- A. Square footage, dimensions, number of floors requiring coverage.
- B. Location of donor antenna and donor tower (indicated on roof plan).
- C. Location for head end equipment, BDA and all remote units, indicate all locations on floor plans (room should have roof access through riser for donor antenna and power source).
- D. Location of vertical chases, risers, dedicated conduit runs for vertical/horizontal cable in the event of multiple stories.
- E. Areas where radio coverage is critical noted.
- F. Areas where coverage is not desired noted.
- G. Location of hard ceilings noted.
- H. High RF loss materials used in construction noted.

**Public Safety VHF / UHF / 700 / 800 MHz**

Channel Number	Tx Freq (MHz)	Rx Freq (MHz)	BTS / Off Air	Signal Strength (Donor)	Required DAS Signal Strength
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

**Public Safety 700 / 800 MHz**

Band	Class A Required?	Channelized Required?	Channel Count	BTS / Off Air	BBU Required?	Signal Strength (Donor)	Required DAS Signal Strength
700 MHz							
800 MHz							