

INSTALLATION OF TetraFlex[®] SYSTEM





Configuration of BS421 and SB421

- The system is delivered as a Turn Key solution.
 - BS421 Base station
 - Service Box SB421 installed with WinXPe Sp2
 - TetraFlex[®] software package preinstalled
 - System and client dongles (License)
- The need to configure the BS421 and SB421 is minimal
- Please refer to manuals in case configuration is needed.









Configuration needed to get system operational upon delivery

- Network management. (using default setup)
 - Individual subscribers (terminals)
 - Country- and network codes, RX/TX frequency *)
- Dispatcher
 - Dispatcher client CD and dongle
- SB421
 - WAN IP configuration for client access
- BS421
 - Frequency *)

*) If known and entered in the System Configuration (order) this will be setup as default by DAMM

Please refer to manuals in case further configuration is needed.





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SB421 Interconnection Board





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SB421 Connection Modules





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How does BS421 get its IP address?

When the system is delivered from DAMM, the SB421 and the BS421(s) are paired together and should start up without any need of configuration change. BS421(s) are assigned an IP from a DHCP server located on the SB421

The IP assigned are 192.168.201.11 for BS421 1, 192.168.201.12 for BS421 2 and so on.

However, if the SB421 is connected to another BS421(s), the IP assigned is in e the range 192.168.201.200 to 249 and must be changed. NOTE: SB421 (DHCP Server) must be started before start-up

NOTE: SB421 (DHCP Server) must be started before start-up of BS421(s)









Change of BS421 IP address

Open C:\Programs\DHCPServer\dhcpsrv.ini in a text editor







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INSTALLATION OF TetraFlex[®] SYSTEM Service Cable



Considerations to observe

- PS is –48 volt DC
- BS <u>must</u> be grounded
- A protection fuses for two BS421s (3,15A Slow) are placed inside the SB421
- Arresting devices are placed inside the SB421

Service cable includes

- 3 wire power cable
- 1 x LAN cable (LAN and 1 sec. pulse)
- LAN to SB421 consisting of: 1 LAN connection (2 pairs) 1 "LAN" type connection for BS421_2 via SB421. Used for 1 sec. frequency synchronization pulse (2 pairs)





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Placement

The recommended placement of the Base Station is as close to the antennas as possible to reduced cable loss. The placement of the Base Station and Service Box shall be such that it is securely fastened to a mast or building that is able to carry the weight of the units and withstand the local environmental conditions. All cables, antennas etc. shall be properly fastened to the mast or building using appropriate fixtures as to avoid damage to the equipment and possible injury to persons.





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BS421 Environmental / climatic requirements

The Base Station is designed for outdoor operation, such that it can be placed in the antenna mast close to the antennas.

The Base Station is designed to be able to operate at severe environmental conditions.

The Base station is guaranteed to operate from -25 to +55 C ambient temperature. Storage temperature for the BS421 is from -40 to +55 C. Note that operation at elevated temperatures (Internal temperature of > 70C) for prolonged periods will result in a significant reduction in MTBF.

NOTE: If the internal BS421 temperature raises to +85 C, the BS will shut off the PA stage for protection. (Delta = 15C)

The Base Station encapsulation complies with IP65







SB421 Environmental / climatic requirements

The Service Box is designed for outdoor operation, such that it can be placed on base of the antenna mast.

The Service Box is designed to be able to operate at severe environmental conditions.

The Service Box is guaranteed to operate from -20 to +55 Celsius limited by the batteries and the CPU board. Note that operation at elevated temperatures for prolonged periods will result in a significant reduction in MTBF.



The Service Box encapsulation complies with IP65



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End of INSTALLATION TetraFlex® SYSTEM