

Key Features

- Revolutionary Beamforming Algorithm
- Adapted to small/tightly spaced elements
- 4-channel coherent receiver designs
 - General purpose tuners (20-3000MHz)
 - Band-specific Compact RF head offered in several bands: 450, 800/1900 and 900/1800 MHz
- Frequency hopping capabilities
- Wideband Options for 3G

Direction Finding Solutions

The Micro-Beam DF is a software-based beam forming DF with the ability to use very small or tightly spaced elements. The technology permits sub-wave spacing without loss of fidelity to the overall DF solution.

The MicroBeam DF is designed to work with 4-channel coherent receiving systems. TriaSys offers two choices for deploying the MicroBeam DF solution.

Cellular Band RF Module

For specific band coverage such as cellular bands, the MicroBeam is deployed with a 4-channel band specific module which provides a low-cost solution for cellular DF in a small package.



General Coverage DF System

For general coverage applications a 4-channel rackmount system is designed around the DRS 9135 cPCI tuner. Using these tuners and coherent A/D modules, general coverage DF from 20-3000MHz can be achieved.



Future options in the Micro-Beam DF will be the ability to transmit as well as receive over the Micro-Beam antenna system.

DF Antenna
(6" diameter)



DF Server Software Features

- 2 1/2 Degree resolution
- Standalone DF Server
Open Interface for integration with other systems
- Runs on Windows XP

Band-Specific DF Model

- Coverage of all standard cellular bands:
450/850/900/1800/1900 MHz
- Timing GPS receiver
- 4-channel coherent receivers
- CDMA and GSM
- Multiple DF target options
- Full control via Gigabit Ethernet
- 1U 19" rackmount chassis
 - 20 lbs
 - 120/220 VAC 150W max.

General Coverage DF Model

- 20-3000 MHz
- 4-channel coherent tuner configuration (DRS-9135)
- Timing GPS receiver
- CW, SSB, AM, FM, GSM and CDMA
- Full control via Gigabit Ethernet
- 3U cPCI 19" rack mount chassis
 - 45 lbs
 - 120/220VAC 180W max

To Inquire or Order

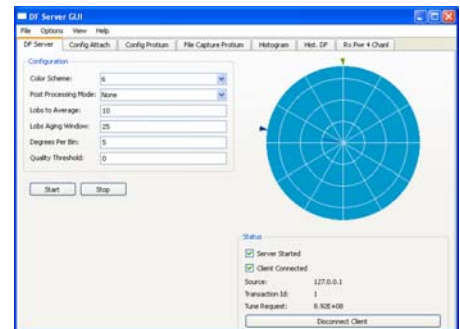
For a demonstration, further information, or to contact a representative, please call 1.978.244.1060, or visit our website at www.triasys.us.

DF Server Software Package

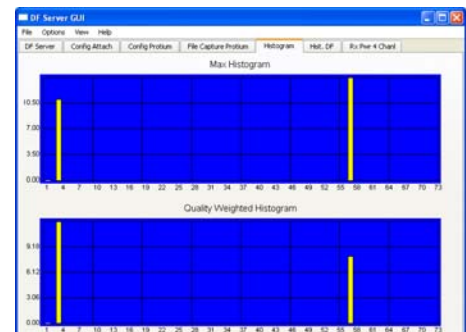
The MicroBeam DF System comes with Windows-based DF Server Software which is a complete package for controlling the RF processor as well as the DF processing algorithm. Several tools are included in the package, including spectral display for target signal acquisition; RF tuner configuration resources; DF algorithm control; and, DF processing displays.

The DF server can be tasked remotely by other acquisition systems, such as TriaSys RForce via Ethernet control.

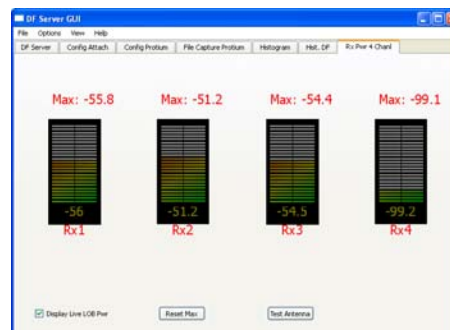
DF Server GUI



Histogram Display



4-channel Coherent Tuner Display



Histogram Polar Display

