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DFP 2400

Direction-finding receiver

VHF UHF SHF

20 MHz – 3000 (6000) MHz

The wideband direction-finding receiver DFP 2400, with its coherent real-time bandwidth of 20 MHz, provides seamless direction-finding of communication signals from 20 to 3000 MHz. Unlike some systems, no blind spots are created by switching the channels, due to its continuous processing of 7 channels. Exceptional characteristics such as a high SFDR, enormous sensitivity and very good IP2/IP3 values, make it possible to detect weak or LPI signals - even when the system is next to strong emitters or in motion. An optional frequency range extension to 6 GHz is available when using PLATH Antennas.

TECHNICAL HIGHLIGHTS

- self-calibrating 7 channel parallel processing
- coherent bandwidth of 20 MHz
- processes 20 million channels/s
- scan speed 40 GHz/s
- integrated sub-octave preselection filters
- SFDR ≥ 80 dB
- sensitivity -137 dBm
- short burst detection in automatic mode ≥ 31.25 μ s
- bearing accuracy $\leq 0.5^\circ$ RMS

CUSTOMER ADVANTAGES

- 7 channel design combined with exceptional processing parameters ensures high resistance to multipath propagation and high sensitivity
- perfectly adapts to different frequency conditions with highest receiver sensitivity through automatic filter selection, processing and online calibration
- outstanding technical parameters enables capture of the shortest burst and LPI signals in automatic mode
- designed for integration into automated COMINT systems

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| DFP 2400 | |
|--|--|
| Frequency range | 20 MHz – 3000 (6000) MHz |
| Coherent analogue bandwidth | 20 MHz |
| Coherent digital bandwidth | 20 MHz |
| Number of subbands | 1 |
| Preselection | optional |
| Frequency resolution | 500 Hz - 32 kHz |
| Gain control | AGC, MGC, AGC+M |
| Scanning speed | 40 GHz/s (@8 kHz frequency resolution) |
| Processing speed | 20,000,000 channels/s |
| Maximum input level | - |
| Noise figure | typ. 9 dB |
| Full dynamic range | 165 dB |
| SFDR2 (in-band)/IMFDR | ≥80 dB |
| MDS (minimum detectable signal) | -135 dBm (@1 kHz frequency resolution) |
| Image frequency rejection | ≥95 dB |
| Intermediate frequency rejection | ≥95 dB |
| IP2 | ≥50 dBm |
| IP3 | ≥25 dBm |
| DF method | correlative interferometer |
| Number of channels | 7 |
| DF data resolution | 0.1° |
| DF accuracy | ≤0.5° RMS |
| Monitoring options | n/a |
| Number of channels | n/a |
| Bandwidth of channels | n/a |
| Audio demodulation | CW, AM, FM, USB, LSB, ISB (provided by WIN DF) |
| Audio bandwidth | - |
| Frequency stability internal reference | ±10 ⁻⁷ |
| Frequency drift | <±5 x 10 ⁻⁷ |
| Nominal impedance | 50 Ω |
| BITE | @ module level |
| Standards | DIN EN60950-1 (VDE 0805-1)/EN 61000-6-2:2002 /EN 61000-6-3:2002 |
| Operating temperature | +10° C to +40° C |
| Storage temperature | -40° C to +70° C |
| Humidity | ≤80% (non-condensing) |
| Protection class | IP 20 |
| Power consumption | 24 V DC / 230 V AC 400W / 650 VA |
| Network interface | LAN 1000 Base-T (TCP/IP) |
| Weight | 43 kg |
| Size (width/height/depth) | 19"/7 RU/596 mm |