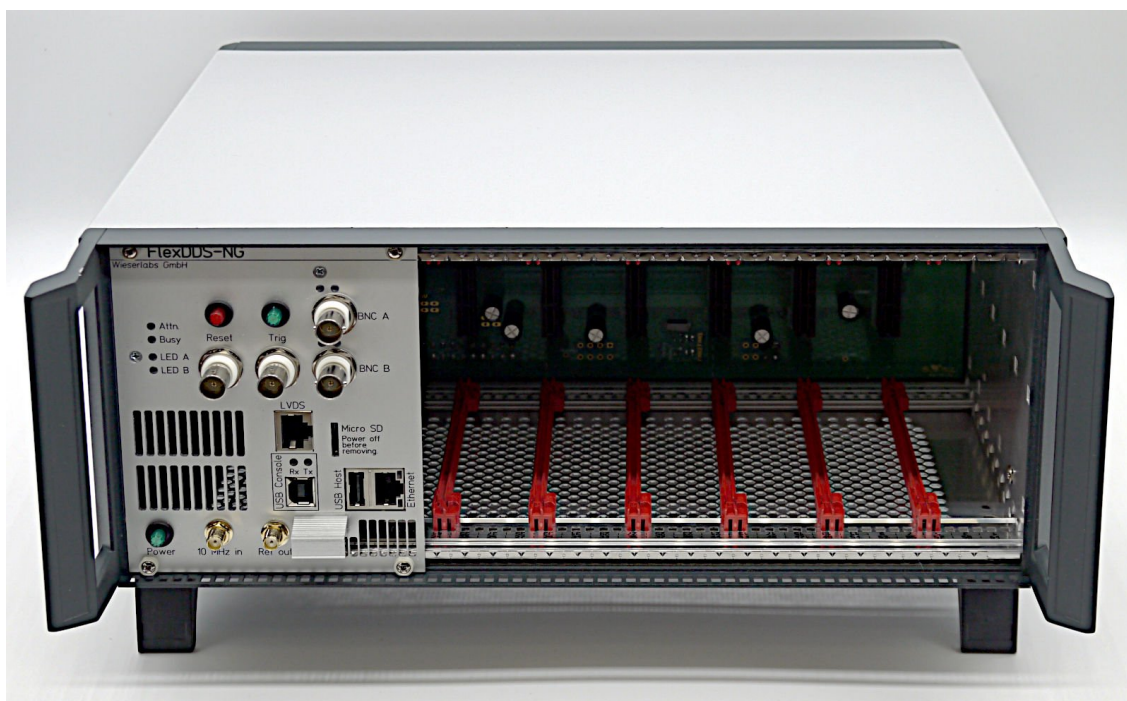


WL-FlexDDS-NG Rack

Rack For Multi-Channel Agile Radio Frequency Source



Features

- Multi-channel **Direct Digital Synthesis** (DDS) platform
- The rack provides power, reference clock, synchronization, trigger signals and network interface for up to 6 RF generator slots (each slot can have multiple RF outputs)
- **Fast real-time control** of all signal parameters
Execution of **complex sequences** with **deterministic timing**
- **Versatile signal generation**: See slot description
- **Integrated computer** with dual-core 900 MHz ARM processor running Linux:
More than **500 MB of command storage** in the rack
- **Gbit Ethernet interface**:
High speed real-time command streaming over the network
Removes length restriction of USB cables and the need for operating system drivers
- External 10 MHz reference clock input and output.

General Description

FlexDDS-NG is a multi-channel phase continuous direct digital signal synthesizer (DDS). Based on the successful design of the [FlexDDS](#) multi-channel Radio Frequency source developed for the Max Planck Institute for Quantum Optics, **FlexDDS-NG is the next generation waveform generator** which directly addresses the needs of experimental physicists.

