

Blue Line Telecom Network Appliance TNA-2000



BLUE LINE
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
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Highlights

Accelerate your wireless and signal processing applications with a scalable SDR platform built for demanding telecom and research environments. The Blue Line Telecom Network Appliance TNA-2000 combines modular architecture, FPGA acceleration and flexible software support to simplify development and deployment of advanced radio systems.

Modern wireless applications require powerful real-time processing. The TNA-2000 provides a flexible SDR platform that enables rapid development of wideband communication systems, phased arrays, spectrum monitoring and advanced signal processing applications.

Communication technologies continue to evolve. The modular MicroTCA architecture allows the platform to be expanded and adapted as new functionality or processing requirements emerge, helping protect your long-term investment.

- Industrial grade server
- NATIVE-C1, 1U rack-mount non-redundant system
- NAT-MCH for system management and switching
- NAT-PM-AC600 Power Module



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- NAT-AMC-ZYNQUP-SDR8, SDR board with Xilinx ZynqUP+ FPGA SoC and ADRV9009 Transceivers
- PrAMC (Intel® Xeon® E3-1500 v5)
- Spare AMC slot for further system extension
- Extensive SW support: A.T. libraries for continuous streaming of I/Q samples, compliant with GNU Radio and MATLAB®, Sample applications for MATLAB®, GNU Radio, and Python
- Build-to-order configured to the requirements

Specifications

Model Type

Rack-mount non-redundant system

Form Factor

19" 1U

Cooling

Active cooling with 80 CFM airflow

Certification

CE

Processor

Intel® Xeon® E3-1500 v5 (PrAMC)

Chipset

Xilinx ZynqUP SoC (on AMC-ZYNQUP-SDR8 boards)

RAM

System memory configuration available upon request



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Input / Output

Front I/O:

RF connections via SMA connectors

Rear I/O:

Ethernet management ports, PCIe connectivity, Auxiliary I/O connections

Expansion

1 x spare AMC slot for system extension

Special Function

Standalone mode: Local operation with onboard ZynqUP SoC

Non-standalone mode: Complete data stream handled by processing AMC

Operating System

Linux

Power Supply

PM-AC600 power module

Mounting

Rackmount

Accessories Included

Mini-coax-to-SMA adapter cables



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Software package

Accessories Optional

Additional AMC-ZYNQUP-SDR8 modules

Extended software packages

Custom configurations available upon request

Warranty and After Sales Support

Standard 1 year (option for 3 years)



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