PRODUCT DATA

LAN-XI Notar — BZ-7848-A

Stand-alone Time Data Recorder Add-on for use with LAN-XI Modules

Uses

- Record time data to a memory card in a LAN-XI module: no need for fragile or bulky PC
- Remotely access the recorder over wired LAN (standard) or wireless LAN or 3G network (requires wireless access point or 3G modem)
- Use as a modular, real-time analyzer by connecting the same LAN-XI hardware to a computer

Features

- With a Dyn-X LAN-XI module, each channel's input range covers160 dB, requiring no ranging
- Interchangeable module front panels (BNC, LEMO or Charge), adapt the LAN-XI module to your preferred transducer cabling
- Small and rugged solid state memory card has no shock-sensitive moving parts like tape recorders or PC hard drives
- Simple start and stop control on the module
- Available memory and overload displayed on the module's built-in LCD screen
- Built-in home page allows any PC, PDA or Smartphone with browser to be used as remote (may require wireless access point or 3G modem)

- Data can be transferred over LAN connection, or the memory card can be removed and inserted in a PC card reader
- Power using mains, external DC, Power over Ethernet (PoE) or battery
- Extremely long battery life, >7 hours, and ability to swap battery in the field for even longer measurement sessions

Expanding on the LAN-XI platform, LAN-XI Notar BZ-7848-A allows you to record time data to a memory card in a LAN-XI module. This means that the LAN-XI module is the entire measurement system, a very small and rugged data recorder.

BZ-7848-A works with all LAN-XI modules. It includes a 16 GB microSD card with miniSD and SD adaptors, UL-1018. Stored data can be either transferred by placing the memory card in a PC card reader or downloading over the LAN connection.

LAN-XI Notar has the benefits of LAN-XI hardware:

- 160 dB dynamic range with Dyn-X LAN-XI module
- Built-in signal conditioning for microphones (polarized and DeltaTron), accelerometers (DeltaTron and Charge) and Tachometers (self, externally and DeltaTron powered)
- Advanced overload detection of level, signal conditioning and out of band overloads

The recorder is set up (bandwidth, number of channels, signal conditioning, etc.) through the module's home page. This means that any PC, PDA or Smartphone with browser can be used (may require wireless access point or 3G modem).

Once the recorder is set up, the PC, PDA or Smartphone browser can control recording and display feedback. The LAN-XI module's button and LCD screen can also be used for control and feedback. Since there is no need to change channel input ranges, control is much simpler than with previous recorders.

The included 16 GB card allows nearly four hours of recording with six channels at 25.6 kHz bandwidth (51.2 kHz sampling frequency). Larger microSD cards allow even longer recording sessions. Since the memory card is removable, it is simple to upgrade the memory or use multiple cards. Multiple cards allow you to analyse recordings on one card while new recordings are made on another.

With the optional LAN-XI Battery Module Type 2831-A, the system has an extremely long measurement time of over seven hours. For longer recording sessions, the battery can be replaced in the field and chargers are available for both mains and external DC (for example, in-vehicle) charging.

Specifications – LAN-XI Notar BZ-7848-A

RECORDER CONTROL – SETUP
Through a internet browser on PC, PDA or Smartphone (no remote license required) to LAN-XI module's built-in home page:
- Recording name
- Frequency bandwidth of recording
- Duration of recording
- Enable/Disable channels for recording
- Configure channels (sensor power supply, high-pass filter, sensor sensitivity, etc.)

Connection by standard wired LAN or optional through wireless LAN or GSM Modem (requires wireless access point or GSM modem)

RECORDER CONTROL – MEASUREMENT
Stand-alone: Record Start/Stop by pushbutton. Module LCD display gives recorder status and amount of storage remaining
Internet browser: Record Start/Stop. Level indication of each channel, recorder status, amount of storage remaining, current overload status and latched overload status during recording session

SUPPORTED INTERNET BROWSERS
Microsoft® Internet Explorer® versions 7 and 8, Firefox™ 3 (Windows® and Linux), Safari® 3, Chrome 1, and Smartphone

DATA STORAGE
Format: miniSD (microSD with adaptor included)
Included Card: 16 GB microSD with miniSD and SD adaptors
File Format: WAV format with additional measurement/channel information stored in B&K footer
Transfer Methods: SD card reader (with included adaptor) or remote via Ethernet connection (> 2 MB/s)

General Specifications for LAN-XI Modules

NUMBER OF CHANNELS
2–12 (hardware module dependent)

BASEBAND FREQUENCY SPAN
With Type 3050, 3053 or 3160:
51.2 kHz (131 kHz sampling)
With Type 3052:
102.4 kHz (262 kHz sampling)
Lowest Bandwidth:
1600 Hz (4096 Hz sampling)
Independent of channel count

TRANSDUCER CONDITIONING
- CCLD for accelerometer and microphone
- 7-pin LEMO for microphones*
- Charge amplifier for charge accelerometers using Inline Charge Amplifier Type 2647-A, -B, -C or -D
- Bridge conditioning for strain gauges and other bridge transducers using Differential Amplifier Type 2697
- Automatic conditioning setup from TEDS (version 0.9) for microphones and CCLD accelerometers

* Types 3050-A-xxx, 3052-A-xxx and 3160-A-xxx only

A/D SPECIFICATIONS
A/D Conversion: 2 x 24 bit
Spurious-free Dynamic Range in 10 V_{peak} Input Range: 160 dB (typical)
See the specifications for the various modules' input channels for further details

POWER REQUIREMENTS
Power Input: 10 – 32 V DC, AC using supplied mains, optional battery
Battery: Optional field-swappable battery (Type 2831-A) gives >7 hours measurement time

Battery Charging Time:
2 hours with mains charger ZG-0469,
3 hours with DC/In-vehicle charger ZG-0858

DIMENSIONS AND WEIGHT
Height: 132.6 mm (5.22″)
Width: 27.5 mm (1.08″)
Depth: 250 mm (9.84″)
Weight: 750 g (1.65 lb.)

DIMENSIONS AND WEIGHT (WITH OPTIONAL BATTERY)
Height: 132.6 mm (5.22″)
Width: 55.0 mm (2.16″)
Depth: 250 mm (9.84″)
Weight: 1.8 kg (3.85 lb.)

For full specifications of the LAN-XI modules, see the separate Product Data

Ordering Information

BZ-7848-A LAN-XI Notar
includes the following accessories:
- UL-1018: 16 GB microSD card with miniSD and SD adaptor

Also available as part of:
Type 7789-B-XS† PULSE Notar and Time Data Analysis Pack

† X = license model either N for node-locked or F for floating

REQUIRED ACCESSORIES
One of:

Type 3050	4/6-ch. Input Module LAN-XI 51.2 kHz
Type 3052	3-ch. Input Module LAN-XI 102.4 kHz
Type 3053	12-ch. Input Module LAN-XI Module 25.6 kHz
Type 3160	Generator, Input/Output Module LAN-XI 51.2 kHz

OPTIONAL ACCESSORIES
Type 2831-A Battery Module

SERVICES
BZ-7848-A-MS1 Maintenance and Support Agreement for BZ-7848-A

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