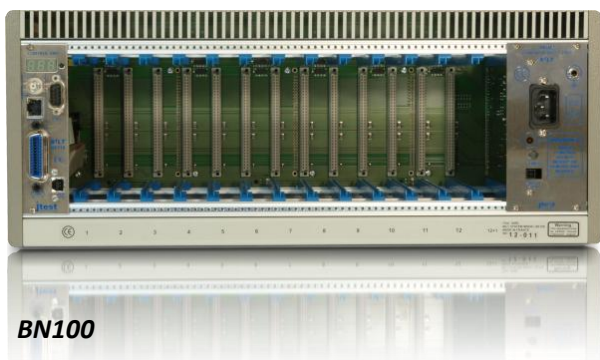


3 CHASSIS MODELS: 5, 8 or 13 slots

- * From 250W to 820W output power per chassis
- * Ethernet, USB, GPIB ports
- * Free PC control software & Labview drivers
- * Advanced PC software for Burn-In & Life-Test

Chassis models

3 modular chassis models are available. They are all self-ventilated, fully shielded to the earth (including module's front panels) and share a common interface controller board. The cooling air flow needs both front and rear clearance and complies with stacking. Blanking plates (ref. BM199) are available to cover unused slots (on demand).



BN100

BILT (13 slots)

- 19 inch wide, 4U high, 365mm deep rackable chassis
- Configurable output power, from 250W to 820W
- Fixing and handling with front rack brackets + handles
- Reference BN100: without display, BN101: with LCD display on the front

Micro Bilt (5 slots)

- Half 19 inch wide 4U high, 250mm deep
- 250W output power
- Convenient for desktop use
- Handles (brackets in option)



BN103



Modules and Accessories

Most modules features special circuitry that guarantee a high level of safety and reliability: no transient during module's On/Off phase or chassis powering or mains connection, no line perturbation, safe stop on mains default, over voltage protection, short-circuit protection.

System Specifications

Power



- Power input: C14 inlet (IEC 60320)
- Supplementary earth connector: 4mm banana socket (Bilt and Tiny Bilt only)
- The 13-slot Bilt chassis output power and input voltage ratings are configurable (BN100 or BN101). Refer to the table below.

Reference	Input rating	Max. Output power		
		110Vac	230Vac	48Vdc
BN100-72	85-264Vac, 47/65Hz	230W	250W	⊗
BN100-73	85-264Vac, 47/65Hz	230W	550W	⊗
BN100-84	210-230Vac, 50Hz	⊗	820W	⊗
BN100-91	48Vdc (e.g. battery)	⊗	⊗	120W
BN105	85-264Vac, 47/65Hz	230W	250W	⊗
BN103	90-270Vac, 45/65Hz	250W	250W	⊗

Control Software

- Operation is autonomous at the chassis level, as the PC is only a command and display interface. Any PC software interruption has no consequence with the operation of the chassis, including memorization functions.
- Bilt Lab is a free Windows PC software that provides a graphical interface to manage one or several BILT chassis. Bilt Lab is a turnkey solution for starting and monitoring Bilt chassis and modules.
- Key features:
 - ✓ Fast and easy connection via GPIB, TCP/IP, USB...
 - ✓ Real time view of the entire BILT configuration in a single display, including modules, virtual groups, measurements and memories
 - ✓ Fast and intuitive BILT structure management
 - ✓ Standardized control windows to drive modules and virtual groups
 - ✓ Integrated communication monitor and terminal
 - ✓ Customizable and persistent interface arrangement

Triggering functions

- Hardware trigger: isolated BNC input on the interface controller board's front panel enabling ON/OFF control
- Software trigger: same function as hardware trigger plus, depending on module's model, setting update:
 - by SCPI commands
 - by UDP broadcasting (Ethernet only)

Hardware Control and Status LEDs

- ON/OFF switch to power the chassis (state is resumed in case of mains interruption)
- 2 configurable push-buttons (Bilt and Tiny Bilt only)
- Safety interlock input, normally closed to enable module start (on demand)
- Internal safety breaker: automatic powering off in case of internal fault (short-circuit, overheating, overload)
- 5 status LEDs: Chassis Power, Output, Alarm, Error, Talk, Listen

Interface Controller Board

All chassis models come with a common BN718 interface controller board, performing real time local control of the modules and offering the following VISA-compatible interface:

- ✓ USB 2.0 (Type B)
- ✓ Ethernet 10/100M, full duplex, 10 sockets max. (RJ45)
- ✓ GPIB (IEEE488.2 female), optional
- ✓ RS422 @56k/207k, insulated (D-SUB 9 male, Type B)
- Standard SCPI commands and protocol
- On-board Real Time Clock (RTC)
- 2Mo on-board memory with at least 3-month retaining capability without powering the chassis
- Typical command response time using Ethernet: 10ms

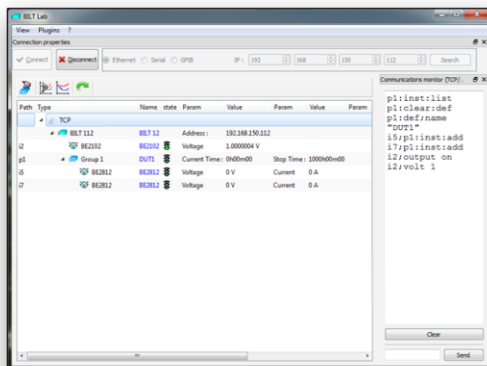
System Specifications

BILT Operating System

- Bilt is a modular system which can be populated with many various modules.

It allows the operator to use virtual groups of modules:

- Unlimited possibility of splitting both the plugged modules and their channels (if any) according to the number of independent virtual groups required for the application
- Each defined virtual group will act as a fully independent multi-channel instrument, regardless of the events occurring within the other ones



A virtual group offers many features:

- Synchronized start/stop of the modules inside the virtual group using independent start and stop delays
- User programmable threshold monitoring on any parameter of any source allows automatic safe stops
- Parameter memorization and plotting (voltage, current, temperature, frequency...)
- History log containing each dated event (start, faults...)
- Cycling
- Software and hardware triggering features

BILT Terminal

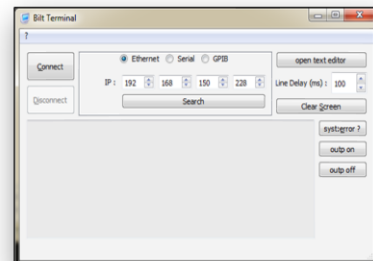
A terminal under Windows that provides an easy way to communicate with a BILT chassis using SCPI commands. Bilt Terminal is a helpful tool for maintenance:

- Allows to open, edit, save and send complete text files.
- Editable push buttons to send frequently used commands

Easystress

EasyStress is a PC software for the purpose of controlling one or a network of BILT chassis, where electronic component stress is concerned (e.g. Burn-In / Life-Test).

From defining stress conditions up to results presentation, EasyStress provides the operator with tools for successfully accomplishing each step of the test.



Key features:

- Defining and managing several devices under test (DUT) using several sources and measurement modules
 - Defining stress conditions, maximum levels allowed, measurement and memorization procedure
- Proceeding test with both real time control and monitoring memorization
- Proceeding both setup and monitoring backup

Plug-ins:

- IT Report: to define and generate printable and exportable reports from test results.
- Connector testing

System Specifications

Warranty

Any Bilt product comes with a two-year parts and labour warranty, when returned to our workshops. A phone support service is also available for the same period.

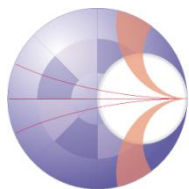
At the end of the initial two-year period, a further contract can be subscribed, including:

- a preventive functional check and calibration of the modules (on site or in our workshop)
- a further two-year warranty period

Quality Regulations & Environment

The Bilt System and all modules are compliant to the applicable European directive and hold the CE mark.

- Products are designed and manufactured in France.
- ISO/CEI 17025 compliant calibration for any DC source or measurement module, calibration certificate provided.
- Serial number based life cycle management
- All products are 100% tested (test reports on demand)
- iTest only uses RoHS compliant components and does not use substances banned by the COSHH regulation.
- iTest complies with the relevant national regulations related to the safety and health of its employees against hazardous substances.
- The protection degree of the Bilt system is IP20 according to CEI 60529.



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