


### 2 chassis Models: 14 or 5 Slots

- from 250W to 1000W output Power
- Ethernet, USB port
- Broad range of application modules available
- Free PC control software and NI Labview™ driveTestrs
- Advances PC software for Burn-In and Life

 Powered by 

## Chassis models

2 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).

### BN200



### BILT (14 slots) BN200

- 19 inch wide, 4U high, 365mm deep stackable chassis
- Configurable output power, from 500W to 1000W
- Fixing and handling with front rack brackets + handles
- MTBF > 300k hours
- Reference BN210 (500W) or BN220 (100W)



### 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)

Name	References	Slots	Output power*		Enhanced Replacement for
			230V <sub>ac</sub>	120V <sub>ac</sub>	
BILT	BN220	14	1000W	900W	BN120, BN100-74
	BN210	14	500W	450W	BN110, BN100-73
μBILT	BN203	5	250W	250W	BN103

\* maximum overall module output power, according to module model and setpoint ; 40°C ambient temperature ; further derating at 100V<sub>ac</sub>

### 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

### Control Board

- All chassis models come with a common control board (ref. BE719), performing real time local control of the modules and offering the following VISA-compatible interface:

- Ethernet 10/100Mbit/s, full duplex
- USB 2.0 (Type B)

- 2 x USB 2.0 host (Type A)
- Standard SCPI protocol or Modbus-TCP
- NI Labview™ drivers
- Control library for EPICS and TANGO
- Compatible with Python
- Internal LUA interpreter
- Ability to control external USB devices
- BNC input/output for triggering functions
- On-board Real Time Clock (RTC)
- On-board memory (μSD card)
- Display showing the IP address
- Compared to former model BE718 (in chassis ref. BN1xx), ports RS232, RS422 and GPIB have been removed



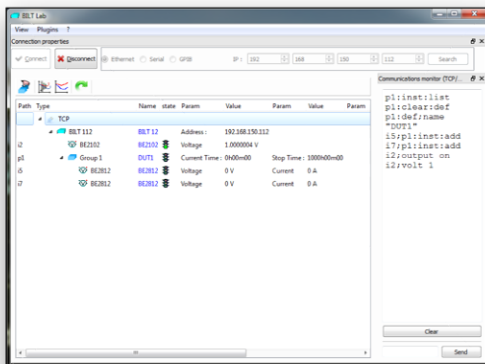
## System Specifications

### 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

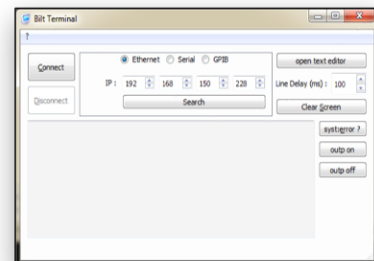
A terminal under Windows that provides an easy way to communicate with a BILT chassis using SCPI commands. Bilt Terminal is a helpful tool for maintenance:

- 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.

BILT® systems are Powered by Itest

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