



PRODUCT OVERVIEW

Lynx300.1PRO is a microprocessor based test equipment core for the verification of electronic modules, commonly known as Devices Under Test (DUT). Its high performance makes it very suitable for use at the manufacturing line as EOL tester. Moreover, it also can be used during the development stages of the product, for prototype verification and for system integration.

As it has remote control functionality, it can also be used as plant monitoring and control for immediate actions and decisions.

It is specially designed to test DUT with multiple inputs and outputs at a minimum time. It allows the possibility to verify up to:

- ▶ 24 digital inputs.
- ▶ 16 analog inputs.
- ▶ 40 outputs with high precision analog voltage feedback.

In order to easy its implementation and widen the application usages, LYNX300.1PRO is controlled by any of the most used industrial standards, such as:

- ▶ CAN.
- ▶ Ethernet.
- ▶ GPRS.

APPLICATIONS

- ▶ Automotive and industrial products DUT verifications.
- ▶ Remote control of the plants and other equipments.
- ▶ Monitoring of equipment stability.
- ▶ Prototype validation during electronic product development stages.

KEY FEATURES

LYNX300.1PRO is a functional test system specifically designed to meet the most demanding requirements of the electronics manufacturers.

It is developed following a modular concept, which will allow the end user to adapt the equipment at their specific needs by selecting the number of electronic boards to use. The test core is a PCB card with a size of 280 x 100 mm. These cards can be set in parallel in order to increase the number of test pins, depending on the DUT complexity.

LYNX300.1PRO is delivered in a 19" 1U standard rack format, so that it fits most of the test cabinets in the manufacturer industry.

LYNX300.1PRO connectivity with the external DUT can be configured according to customer requirements. There is two standard connection options, which are:

- ▶ Terminal blocks with screw for direct cable attachment.
- ▶ 96 pin DIN 41612 connector.

Other options such as ODU connectors are available under demand.

This way, the tester can cover all DUT digital and analog inputs, signal and power outputs and pass-throughs. Voltage and current per commutation is measured and also the current in low power modes (e.g. sleep mode).

LYNX300.1PRO control is done under CAN bus, a broadly used communication protocol in the automotive industry, Ethernet or GPRS for remote connections. This way, it is easy to integrate with the current test stations.

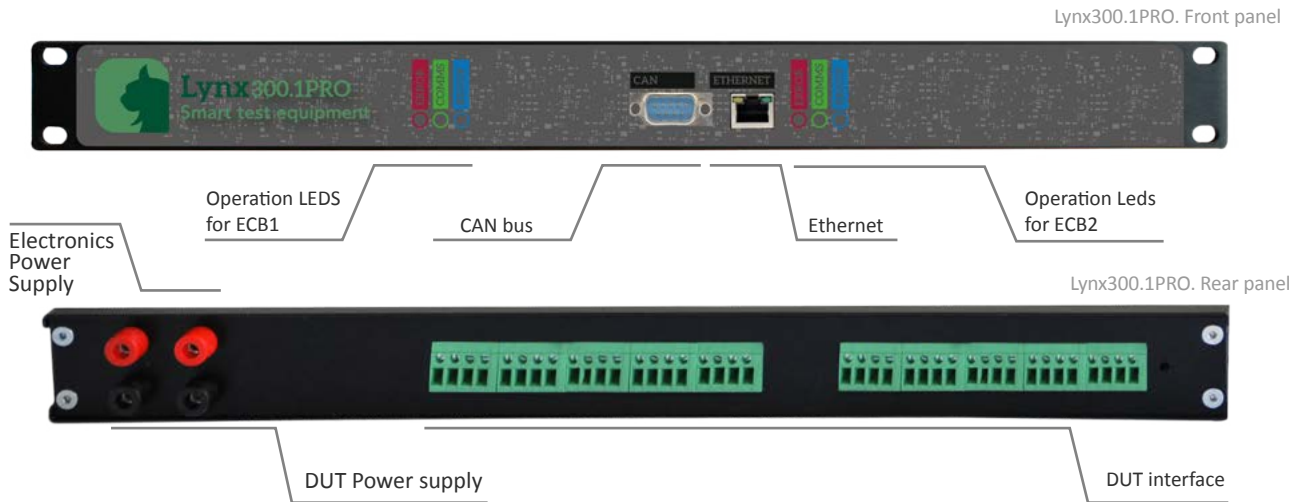


Lynx300.1PRO. Test equipment product with 2 Electronic Control Boards (ECB).





PRODUCT CONNECTIVITY



KEY FEATURES

The main characteristics of the product are:

- ▶ Compact tester for verification of most of the electronic devices having inputs, outputs and communication lines.
- ▶ CAN based communication control protocol with the HOST master.
- ▶ Compatible for testing Wire-harness and electronic products.
- ▶ Coverage increase by using more modules in parallel controlled with the same CAN bus.
- ▶ Test sequence easy to define and implement.
- ▶ All boards are protected against a short circuit to any potential inside the DUT.
- ▶ Dual power supply option: AC mains or DC +12V.
- ▶ Ultra low power consumption if powered from battery (low power mode).
- ▶ Test for inputs and outputs up to 5A with internal programable load.
- ▶ Output snap-shot possibility with 24 bits ADC.
- ▶ Characterization of the DUT input circuitry.
- ▶ Communications available: CAN and Ethernet.
- ▶ Each module has the option for a GPRS for global positioning and remote access.
- ▶ Operating modes:
 - ▶ On-line with a connected PC master.
 - ▶ Off-line without a connected PC.
- ▶ Package is 1U 19" standard rack.
- ▶ Labview compatible.

ELECTRIC CHARACTERISTICS

POWER SUPPLY	MIN	TYP	MAX
Electronic voltage supply	11V	12V	13V
DUT voltage supply	8V		30V
COMMUNICATIONS	MIN	TYP	MAX
CAN frequency			1Mbps
DUT DIGITAL INPUT test	MIN	TYP	MAX
Current driver	1mA		100mA
Output pull-up	10R		10KΩ
Output pull-down	10R		10KΩ
Output voltage high	$V_{OUT} - 1V$		V_{OUT}
Output voltage low	0V		1V
DUT ANALOGIC INPUT test	MIN	TYP	MAX
Current driver	1mA		100mA
Output voltage	0,1V		$V_{OUT} - 0,1V$
Output voltage resolution	1,95mV	2,9mV	7,3mV
DUT OUTPUT test	MIN	TYP	MAX
Output current	50mA		10A
Output current resolution		5mA	
Output voltage range (dc)	0V		300V
Channel adquisition time		2μs	
Output voltage error		<1%	