

## Chassis series in LXI standard

Mezzanine carriers in the LXI standard are devices that ensure the functioning of various modules installed in it, made in the form of mezzanines, under the control of a personal computer. The devices are intended for use as mezzanine carriers in multi-channel systems for collecting/issuing information of both digital and analog types. The main function is to accumulate a large amount of information in the form of binary codes coming from mezzanines at high input frequencies and a large number of channels, when it is not possible to process data in real time. In the mode of information output to the mezzanines, the mezzanine carriers provide output of data recorded in its internal memory at spec-

ified time intervals in a single time grid to the specified mezzanines. Mezzanine carriers in the LXI standard perform batch buffering of data from dissimilar mezzanines with data binding to a single time grid and provide access to the current (received at the last time) measurement results over any channel. They also provide communication with an external personal computer via USB or ETHERNET interfaces based on messages. The device corresponds to the class "C" of LXI devices according to the IEEE 1588 standard and the class of devices USBTMC-USB488 (USB Test and Measurement Device).

### Specifications

**MezaBOX**



**MezaBOX-4 LXI**



**MezaBOX-4M LXI**



The number of installed mezzanine	2	4	
Technical characteristics of the USB device interface	<ul style="list-style-type: none"> <li>• interface type-USB 2.0;</li> <li>• USB - High Speed mode (supports full-speed mode as well);</li> <li>• interface speed-480 MB / s;</li> <li>• number of channels 1;</li> <li>• USB type B connector;</li> <li>• the device class USBTMC-USB488 (USB Test and Measurement Class);</li> <li>• support Plug&amp;Play for PC</li> </ul>		
Technical characteristics of the ETHERNET interface	<ul style="list-style-type: none"> <li>• interface type - 10Base-T/100 Base-T;</li> <li>• mode - Full duplex;</li> <li>• the speed of the interface is 10\100 MB/s;</li> <li>• number of channels 1;</li> <li>• the LAN connector type RJ45;</li> <li>• support for plug&amp;Play for PC.</li> </ul>	<ul style="list-style-type: none"> <li>• interface type - 10Base-T/100 Base-T;</li> <li>• mode - Full duplex;</li> <li>• the speed of the interface is 10\100 MB/s;</li> <li>• number of channels 1;</li> <li>• Auto-MDIX operation mode;</li> <li>• Auto-Negotiation operation mode;</li> <li>• there is a built-in web interface for managing device settings when operating in a local network;</li> <li>• the LAN connector type RJ45;</li> <li>• plug&amp;Play support for PC.</li> </ul>	<ul style="list-style-type: none"> <li>• interface type-10Base-T/100 Base-T/1000 Base-T, SFP Fiber optics ETHERNET 1000 Base-X;</li> <li>• mode-Full duplex;</li> <li>• interface speed - 10/100/1000 MB / s;</li> <li>• number of channels-1;</li> <li>• Auto-MDIX operation mode;</li> <li>• Auto-Negotiation operation mode;</li> <li>• there is a built in WEB interface for managing the module settings when operating in a local network;</li> <li>• the LAN connector type RJ45;</li> <li>• plug&amp;Play support for PC</li> </ul>
Technical characteristics of the communication interface with mezzanines			
Characteristics of the mezzanine management interface:	<ul style="list-style-type: none"> <li>• number of bits of the control bus - 16 bits;</li> <li>• number of address bus bits - 5 bits;</li> <li>• recording cycle duration - from 160 to 187 ns;</li> <li>• the minimum reading cycle duration is 160 ns</li> </ul>		
SDRAM memory for sharing with mezzanines	128 Mb	127 Mb	252 Mb