System modules in the AXIe-0 standard

System modules in the AXIe standard are designed to work as part of measurement systems created on the basis of the AXIe-0 backbone. System modules in the AXIe standard are intended for use as part of AXIe-0 standard crates with a maximum of 14 seats (slots). The system modules in the AXIe standard meet the requirements of the AXIe-0 standard for the AXIe-0 backbone system modules

Specifications

SMGS AXIe-0

SM AXIe-0

Technical characteristics of the interface for interaction with crate tool modules		
Maximum number of supported tool modules	13	
Interface for interacting with tool modules	built-in Ethernet Switch Ethernet ports 13 10/100/1000 Base-T	built-in Ethernet Switch Ethernet ports 13 10/100 Base-T
Physical implementation of the interface for interacting with tool modules	Zona 2 module connector in accordance with AXIe standard	
Interaction with tool modules via trigger lines	Relay signals between any of the 12 lines of the AXIe trigger bus of the chassis and external connectors located on the front panel of the module. The state of any of the 12 lines of the AXIe crate trigger bus can be relayed to the module's "TTRG OUT" connector. The line for retransmission is selected using a microswitch. The output signal level "TRG OUT" is TTL 5V. The connector type is SMB. The "TRG IN" connector is located on the front panel of the module to receive external signals and then retransmit them to the Tigger bus of the AXIe crate. The selection of the AXIe crate trigger bus line for retransmission is performed using a microswitch. Input signal level "TRG IN" - TTL 5 V. Connector type-SMB	Not provide
Тактовая синхронизация инструментальных модулей	Generating the CLK100 signal to instrument modules in accordance with the AXIe standard from the internal reference frequency source of the module or from an external 10 MHz reference frequency source. The selection of the CLK100 signal source for the instrument modules and the "CLK OUT" connector of the module is performed using a microswitch. To connect an external reference frequency source, the "CLK IN" connector is located on the front panel of the module. Input signal parameters: frequency-10 MHz, signal level-TTL 5 V. The connector type is SMB. To send reference frequency signals to other external devices, the "CLK OUT" connector is located on the front panel of the module. The frequency source of this signal can be either the internal generator of the module, or the signal coming to the "CLK IN"connector. Output signal parameters: frequency-10 MHz, signal level-TTL 5 V. Connector type-SMB	Not provide
Technical characteristics of the interface for interaction with external equipment		
Interface	Ethernet 1 port 10/100/1000 Base-T	Ethernet 1 port 10/100 Base-T
Type of Ethernet switch	Unmanaged switch	

Standards and functions	• IEEE 802.3 10Base-T; • IEEE 802.3u 100Base-TX; • IEEE 802.3 ab 1000Base-T; • IEEE 802.3 x flow control; • IEEE 802.3 az Energy Efficient Ethernet (EEE); • automatic detection of MDI/MDIX; • support for half / full duplex mode for 10/100/1000 Mbps; • Jumbo frames up to 9216 bytes in size; • auto-negotiation of speed	• IEEE 802.3 10Base-T; • IEEE 802.3u 100Base-TX; • IEEE 802.3 x flow control; • IEEE 802.3 az Energy Efficient Ethernet (EEE); • automatic detection of MDI/MDIX; • support for half / full duplex mode for 10/100 Mbps; • Jumbo frames up to 2048 bytes in size; • the method of "Back pressure" in half duplex mode; • auto-negotiation of speed
Data rate	• Ethernet: 10 Mbit / s (half duplex) / 20 Mbit /s (full duplex); • Fast Ethernet: 100 Mbit / s (half duplex) / 200 Mbit /s (full duplex); • Gigabit Ethernet: 2000 Mbps (full duplex)	• Ethernet: 10 Mbit / s (half duplex) / 20 Mbit /s (full duplex); • Fast Ethernet: 100 Mbit / s (half duplex) / 200 Mbit /s (full duplex)
Switching method	Store-and-forward (switching mode with intermediate storage)	
Module power supply	• -48 V; • Zona 1 module connector in accordance with AXIe standard	