MOX PRODUCTS

MOX Open Controller MX601-5xxx

DATA SHEET

The MOX Open Controller together with its integrated IEC61131 software forms a high performance and flexible control solution.

The MOX Open Controller system is the high end of the MOX Products' range and has been designed with open standards in mind. Communications to plant and field I/O as well as to the SCADA/HMI system is available through Ethernet TCP/IP as well as many of the leading fieldbus offerings.

Reliability of the installation is ensured with MOX Open Controller providing full system redundancy with changeover occurring inside one scan of the processor.

Powered by a AMD 500MHz processor, the MOX Open Controller can process applications more efficiently than a typical PLC or DCS system, while simultaneously performing I/O scans, solving logic, maintaining peer-to-peer and peer-to-host communications and synchronising primary and back-up controllers.

The MOX system supports MOX 603 Modular I/O as standard in either Stand Alone mode or Rack Configuration mode. The inherent scalability of an integrated MOX Open Controller solution, ensures performance is maintained from a system as small as one I/O block to as large as thousands of I/O, without the need to change the system architecture.

With MoxGRAF, application debugging does not require the developer to return to the basic process control logic. Errors are detected and corrected or prompted with the correct use of each language during development. The extensive hypertext based on-line help system includes a thorough cross-reference explanation of the IEC 61131-3 standard.

Features

- Modular Construction
- Open System Interconnection
- Full System Redundancy
- Expandable and Scalable I/O Architecture
- Enterprise Ready Solution
- 500MHz Real Time Processing Platform
- Integrated IEC 61131-3 Applications Development Environment
- Support of Various Communications Standards

The MOX Open Controller system is the high end of the MOX range of controller solution. It has been designed with open standards in mind.

MX601-5002 CPU Specifications	
Power Specifications	
Power Dissipation within Module	‹6W
CPU Specifications	
Processor	AMD GEODE™ LX800
Clock Speed	500MHz
DRAM	128MB
Flash	1GB
Communication Specifications	
Ethernet	100 Mbps
Redundancy Port	100Mbps Fibre
Other Features	
SOE Support	SOE Synchronization
Reset Switch	Reset to factory settings

MX601-5004 CPU Specifications	
Power Specifications	
Power Dissipation within Module	‹6W
CPU Specifications	
Processor	AMD GEODE™ LX800
Clock Speed	500MHz
DRAM	128MB
Flash	1GB
Communication Specifications	
Ethernet	10/100Mbps

MX601-5101 Power Supply Module Specifications	
Input Information	
External power supply	+20~+30VDC
Power Supply Capability	50W
Reverse input protection	Yes
Other Information	
Efficiency	83% (Max)
Dissipation at zero load	3.4W
Supports redundancy	Yes

MX601-5202 PROFIBUS DP Interface Specifications	
Power Specifications	
Power Dissipation within Module	‹3.2W
Communication Specifications	
Communication Rate	12Mbps
Protocol	PROFIBUS DP
PROFIBUS DP Port	DB9, Female
Diagnostic Port	DB9, Male

MX601-5207 MoxNET Interface Specifications	
Power Specifications	
Power Dissipation within Module	‹5W
Communication Specifications	
10/100Mbps RJ45 Port	7
RJ45 Port Characteristic	
10/100Mbps auto-negotiation	Yes
Full/Half Duplex auto-negotiation	Yes
Auto-MDIX	Yes
Flow Control	802.3x
Collision	Drop frame after 16 collisions or collision continues 512 bit times
Broadcast	5% broadcast frames allowed

MX601-5208 MoxNET Interface Specifications	
Power Specifications	
Power Dissipation within Module	‹7W
Communication Specifications	
10/100Mbps RJ45 Port	6
100Mbps Duplex Fibre Port	1
RJ45 Port Characteristic	
10/100Mbps auto-negotiation	Yes
Full/Half Duplex auto-negotiation	Yes
Auto-MDIX	Yes
Fibre Port Characteristic	
Connector Type	SC
Wave Length	1300nm
Fibre Mode	Single mode Fibre
Common Port Characteristic	
Flow Control	802.3x
Collision	Drop frame after 16 collisions or collision continue 512bit times
Broadcast	5% broadcast frames allowed

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