

UC0011A1 control module with Profibus DP protocol



- Processor PowerQUICC II MPC8270 (core PowerPC 603E™ with integrated modules FPU,
- CPM, PCI and store controller) at frequency 450MHz
- 16kB data cache, 16kB instruction cache
- 128MB memory SDRAM with ECC support
- 128MB memory FLASH
- 2MB back-up memory SRAM
- Slot for SD card
- Backed-up circuit RTC
- 3 channels serial interface + terminal
- USB interface
- 2 independent channels Profibus DP V1
- 3 channels Fast Ethernet 100BASE-TX
- Galvanic separation of communication interfaces from the system
- Assembly of the module onto the DIN bar



UC0011A1

Module UC0011A1 is a basic user programmable unit of the set Z210. It enables to connect external equipment by means of serial channels, Ethernet interface and 2 independent channels Profibus DP V1. Construction and circuit design enable separate installation of the module onto the DIN bar.

Mechanical parameters and weight					
Parameter	Conditions	Min.	Type	Max.	Units
Dimensions of module (HxWxD)			128,5x227x62		mm
Dimensions of board (HxW)	MK0015S1		110x158		mm
	MK0056E1		110x59		
Covering			IP20		
Weight			860		g

Fast Ethernet 100BASE-TX					
Parameter	Conditions	Min.	Type	Max.	Units
No. of channels			3		ks
Transmission rate				100	Mbit/S
Electric strength			700		V DC

USB and terminal					
Parameter	Conditions	Min.	Type	Max.	Units
Transmission rate	TERM (RS-232)			115200	Bd
Transmission rate	USB			12	Mbit/s
Electric strength			700		V DC

Serial interface					
Parameter	Conditions	Min.	Type	Max.	Units
No. of channels			3		ks
Communication rate		150		115200	Baud
No. of bites			5,6,7,8		
No. of stop bites			1, 1 1/2, 2		
Parity	Program adjustable		None, even, odd, mark, space		
Flow control			None, Xon/Xoff, RTS/CTS		
Physical interface			RS232, RS422, RS485		
Ending of line			5k (RS232) 120 (RS422/RS485)		Ω
Electric strength			700		V DC

Supply and consumption					
Parameter	Conditions	Min.	Type	Max.	Units
Supply voltage		18	24	30	V
Consumption			300	350	mA

Parameters of Profibus DP communication interface					
Parameter	Conditions	Min.	Type	Max.	Units
No. of channels			2		ks
Transmission rate		9,6		12000	kBd
No. of connected stations	DP Slave		125		ks
Max. dim. of cyclic. I/O data from station	per channel			244	B
Max. dim. of acyclic. I/O data from station	per channel			240	B
Max. dim. of configuration data				244	B
Max. dim. of parametrization data				7	B

Z210

