

Digital Input Board with diagnostics BB0017B1



The board BB0017B1 represents the basic interface of the system for digital signals. It is used to connect 32 digital inputs via the Serial RapidIO bus to the control board of the Z200 family. The board diagnoses closed loop and tests the function of all 32 digital inputs. Its construction and circuit design allow the board to be safely inserted and removed from the live backplane (Hot Swap function).

Electrical Parameters					
Parameter	Conditions	Min.	Stand.	Max.	Units
Number of inputs			32		
Logic levels					
Log. H			24	±30	V
Log. L		±11	0	±5	V
Min.current for detecting closed loop		1,2	2		mA
Asynchronous counter				250	Hz
Temperature coefficient of threshold level			+ 0,3		%/C
Input current	U _{in} = 24 V		10.5		mA
Input time constant		1		1000	ms
Dielectric strength	Input / System	700			V DC
Dielectric strength	Input / Input	700			V DC
Power supply		21	24	26	V
Consumption			180	350	mA



- Connection of 32 digital inputs
- Diagnostic closed loop of all 32 digital inputs
- The possibility of setting digital filter
- Galvanic isolation of inputs from the system and from each other
- Displaying digital input states and correct function on the board front panel
- Asynchronous counter mode
- Archive of input signals

Z200

