RDD Communication Board BB0006E1

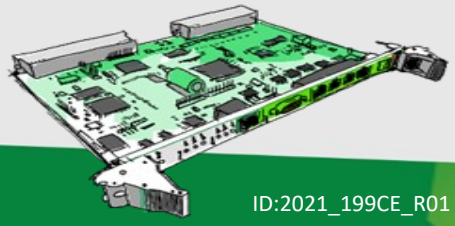
Safe and reliable automation

RDD Communication Board BB0006E1 of Control System SandRA Z200 line

RDD Communication Board **BB0006E1** belongs to the process station **SandRA Z200** which is designed for a broad of industrial fields and conventional power industry. Products of the **ZAT** Company excels with their **safety and reliability** and are results of our more than **fifty years of activities** on the market in the field of automation.

The **BB0006E1** board implements the connection between the global communication network **RDD** and the local serial **SRIO** bus at the **Z200** system. The principle of RDD communication is that each board connected to the RDD communication network contains RAM memory, in which data are constantly and cyclically stored and updated and then transmitted gradually by all the nodes of the network. This means that in all the communication boards of the particular network, there are constantly available the same data images of the entire network data and from the user perspective, the system looks like one shared RAM memory.

- **Designed for 19“ rack**
- **Board dimensions 160 x 233 mm**
- **RDD communication protocol with RS485 interface**
- **Diagnostic terminal with RS232 interface**
  System and communication LEDs
- **2 service connectors with interface RS232 a JTAG**
- **Construction and Circuit design enables Hot Swap functions**



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Mechanical Parameters and Weight

Parameter	Specifications	Min.	Type	Max.	Units
Board dimensions			160 x 233		mm
Panel dimensions[1]			4TE x 6HE		
Weight			300		g

[1]*Designed for 19“ rack*

Electrical Parameters

Parameter	Specifications	Min.	Type	Max.	Units
RDD Protocol					
Interface			RS485		
Transfer rate		125		2048	kbit/sec
Number of RDD communication nodes				128	
Dielectric strength			500		V_{ef}
Diagnostic terminal					
Interface			RS232		
Voltage levels of transmitted data					
log. H			3,3		V
log. L			0		V
Binary inputs (HW key)					
Number of inputs			8		
Logical levels					
log. H		10		30	V
log. L		0		6	V
One input consumption	U_{in}= 24V		2,5		mA
IO bus power supply		18	24	30	V
Supply voltage		21	24	26	V
Consumption	+24V			250	mA

This document is applied to the BB0006E1 product and follows up on the document "Technical conditions Z200" no. 4-5397 of which it has been an integral part.