



Radio Data
Technology
Limited



DP Over Radio

Features

- No reduction in Profibus network speed.
- Point to multipoint operation
- Up to 20Km range
- Intelligent radio protocol
- Meets R&TTE directive
- Numerous international approvals

Radio Data Technology have been manufacturing radio modems for industrial applications since 1989 and today are recognised by many of the worlds leading automation and SCADA suppliers as the market leader.

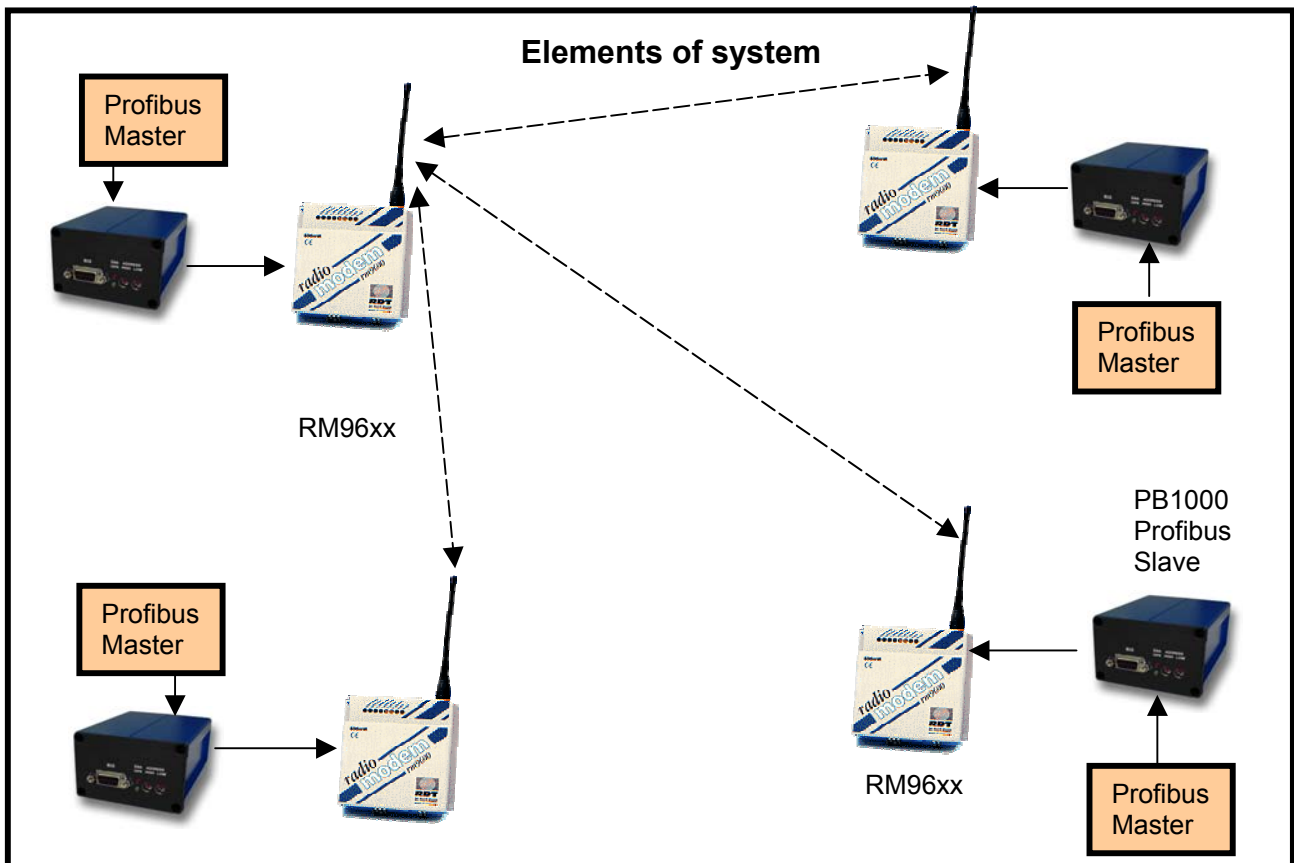


PROFIBUS presents some special requirements that cannot be met by a conventional narrow band radio modem without severely compromising the performance of the Profibus network. For this reason RDT have introduced the PB1000 interface module. This product uses a new approach whereby the modem/interface module is itself a Profibus slave rather than simply a communication device.



The system will allow for up to 8 Profibus systems to 'talk to' a single system thereby permitting a star configuration often required in SCADA applications.

The PB1000 is a compact unit 93x73x46mm with an optional DIN rail mounting kit. Exterior accessible switches set Profibus address and there is LED indication of power and bus status



Abridged Radio Specification.

Frequency Range 800KHz band in the range
406 – 470MHz

Channel Spacing 10, 12.5, 20 or 25KHz
Modulation GMSK

Transmitter.

Output power 500mW (adjustable)
Adjacent Chan -37dBm
Freq. Tolerance +/- 1KHz
FM deviation +/- 2KHz (12.5KHz chan.)
Intermod attenuation >40dB
Spurious emissions <-36dBm 0-1GHz
<-30dBm 1-4GHz

Receiver.

Sensitivity(12.5KHz) -110dBm for 15dB SINAD
Co-channel rejection >-12dB
Adj. Channel selectivity >60dB
Spurious response rejection >70dB
Intermod response rejection >70dB
Blocking >84dB for any signal >50KHz
from tuned frequency.
Spurious emissions <-57dBm 0-1GHz
<-47dBm 1-4GHz

Meets R&TTE directive. Contact RDT for details of other approvals.

Other Specification items.

RM96xx

Size 142 x 150 x 47mm
Operating temp range -25 +60C
Weight – 900g
Over air data rate 16Kb

PB1000

Profibus Speed 9.6K to 12Mbps/s
Point to point or point to multipoint configuration.
Up to 8 outstations and 1 base per system.
30 Bytes of data I/O per outstation.
Size 93 x 73 x 46 mm

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