

# WDM9000 DIGITAL RADIO MODEM

- FOR LONG RANGE WIRELESS DATA COMMUNICATION



## HIGHLIGHT

- **RF bandwidth**  
406 - 470 MHz (WDM9715)  
406 - 470 MHz (WDM9715-48)
- **OPTION:** 150 - 175 MHz model
- **10 to 16 VDC or 18 to 60 VDC**
- **Small size**
- **Easy to setup / Plug & Play**
- **Interface**  
ETHERNET 10/100 Mbps
- **Data air speed**  
32/64Kb/s @ 25 KHz channel
- **QAM: 4QAM or 16QAM**  
(Quadrature Amplitude Modulation)
- **Surface mount**
- **Temp. range -20 °C til +55 °C**
- **Private network**
- **15 Watt Peak Power**
- **Easy and reliable data communication**
- **Point-to-point**  
**Point-to-multipoint**



The WDM9000 Wireless Data Modem is a transceiver designed for data transmission and reception only. The design of the WDM9000 is based on the state of the art technology which makes it possible to have a high data speed 32/64Kb/s on a 25 KHz channel. The high data speed is obtained by using QAM signalling.

The WDM9000 is available for fixed and mobile applications for the VHF & UHF frequency band. It can be used for Road systems, Watersewage, Electricity sector, Pipeline, windmills, tunnels etc.

If the need is to transmit or receive data information and cabling is not the option, the ideal solution would be the WDM9000 as the data air speed and output power is high. It transmits and receives data several kilometers over a wireless connection to another radio modem over a point-to-point or -point-to-multipoint link.

As the device is easy to setup and a plug and play unit, you will be on air in short time. Connect the WDM9000 to the power, mount the antenna (directly or external), connect the WDM9000 to you control unit, run the setup program and you are ready to transmit or receive informations from the office. Ideal to use where cabling is not an option, independent from public networks and no operating costs.

Programming of parameters such as configuration of the data interface, radio frequencies, power output etc. is performed by using a standard PC through the built-in interface and dedicated software.

The WDM9000 fulfils the European standards for data communication products and is manufactured and tested using the latest technology in order to achieve the optimum quality.

# PROFESSIONAL RADIO COMMUNICATION

The WDM9000 Wireless Data Modem is built into a robust metal housing, which can be mounted on a flat surface. The BNC connector of the WDM9000 gives the option to mount the antenna either directly on the modem or using an external antenna. (We recommend that you use an antenna that have a VSWR better than 2.0)

The WDM9000 is a unique digital radio modem with high data speed and longer range. Ideal for transmitting and receiving data information.

## Specifications:

### Transceiver

**UHF**

Frequency Range	406-470 MHz
Channel spacing	25 KHz
RF-bandwidth	64 MHz
Mode of operation	Simplex / Semi-duplex
RX/TX delay	2 ms simplex/semi-duplex

### Receiver

Sensitivity @ 80% succesfull message ratio	@ 32Kb/s -111 dBm (4QAM) @ 64Kb/s -104 dBm (16QAM)
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### Transmitter

Output power @ 4QAM	<b>High:</b> 15 Watt peak power @ 13,2V <b>Low:</b> 2 Watt peak power @ 13,2V
Modulation	4QAM or 16QAM

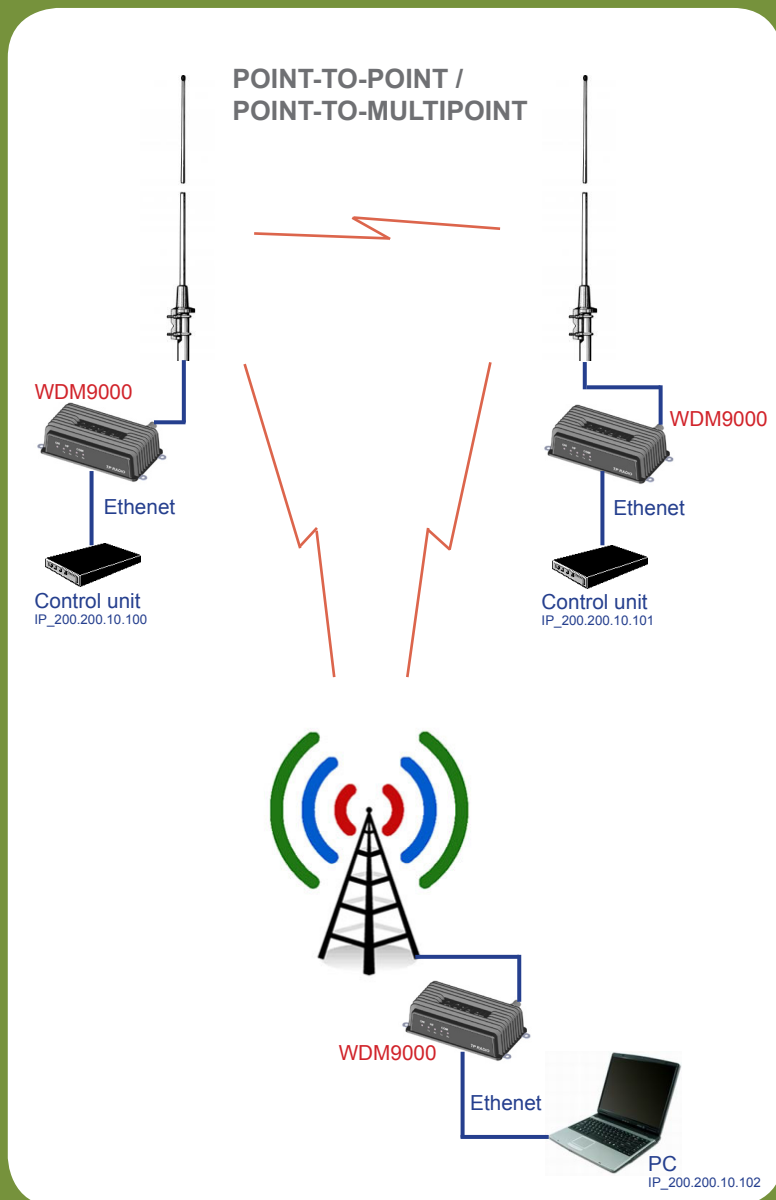
### Data modem

Interface	RJ45 Ethernet (10/100 Mbps)
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Data air speed	4QAM = 32 Kb/s 16QAM = 64 Kb/s
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### General

Operating voltage	10.8 to 15.6 VDC or 18 to 60 VDC.
Power consumption	0.8 A - 2.0 A max (transmit)
Stand-by	< 130 mA
Antenna connector	BNC, 50 Ohm, VSWR < 2.0
Temperature range	-20° to + 55°C
Cabinet dimensions	H. 40, W. 134, D. 76 mm
Weight	430g
Installation	Wall mount



These specifications are in conformaty with the European R&TTE Directive 1999/5/EC and meets the harmonized Standard EN 302 561 and CE approved.

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Dealer:

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