

RadioNet

Wireless Monitoring & Control

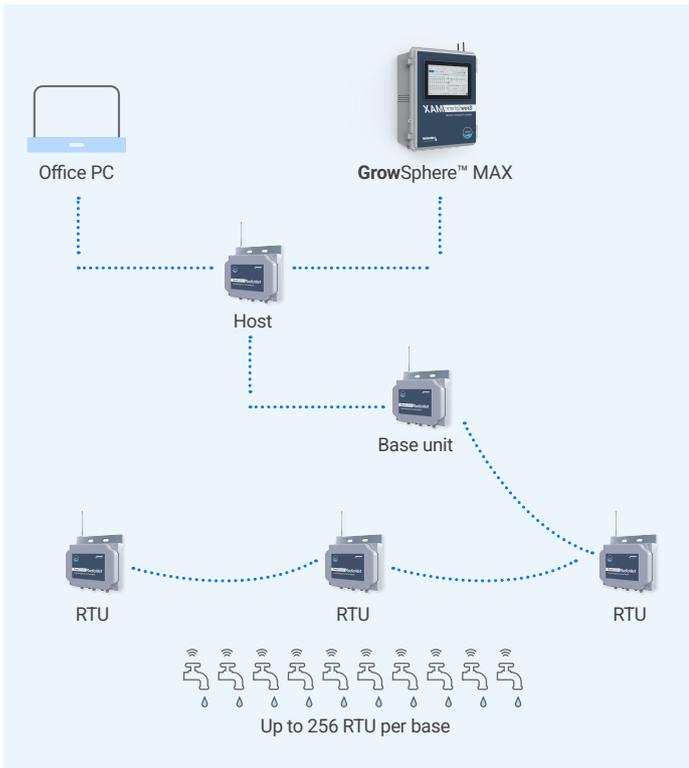
RadioNet is a unified wireless monitoring and control system that simplifies irrigation management across large or remote sites. Its modular design combines remote terminal units (RTUs), RF communication, and intuitive software to provide reliable, long-distance control of valves and sensors. The user-friendly system makes it easy to control and scale RTUs - boosting productivity and reducing operational interruptions.



/ Advanced Features

- Flexible and versatile, designed to support system expansion as operational needs grow
- Continuous spectrum analysis with real-time recording and visualization of RF interference, optimizes long-term network performance from initial unit installation onward
- Remote terminal units (RTUs) function as store-and-forward (S&F) repeaters, extending effective communication range by up to 5 km (3 miles) between units and up to 70 km (43 miles) network-wide
- Controls up to 256 valves and up to 100 sensors simultaneously to provide maximum control and reliability for large-scale projects
- Supports analog and serial sensors for broad compatibility with existing field devices
- Repeater technology avoids infringing objects while covering great distances
- Low-power consumption ensures extended battery life; units can be powered by rechargeable batteries and a solar cell
- Built-in diagnostics and real-time alerts for frequency loss, service failures, and remote troubleshooting

/ Typical Installation



/ Technical Specifications

- Frequency: 402-474MHz, channel spacing 12.5kHz
- Power: 1-400MW
- Hardware capacity: up to 256 RTUs per network
- RTU: 3 models, fixed 2 X 2, expandable and data acquisition
- Supply power 6VDC, output 12-15VDC latch
- Maximum operating temperature – 60°C (140°F)
- Remote unit temperature range of -25°C-85°C (-13°F-185°F)
- Power consumption:

Units	Idle	Tx
Host/219	70mA	130mA
Base/202+209	10mA	20mA
RTU/202+207	52uA	20mA
RTU/202/307	52uA	20mA
RTU/DCP	150uA	21mA

/ Order Details

Description	Catalog Number
R-NET 8-WAY MULTIPLEXER MUX	74330-012150
R-NET DCP RTU 1XAI 3XDI EXCLUDE CAP CARD	74330-012230
R-NET MONOPOL.ANT.430-470 3M GROUNDED484	74330-005020
R-NET MONOPOL.ANT.430-470 6M GROUNDED485	74330-005060
R-NET MONOPOL.ANT.430-470 10M GROUND.486	74330-005120
R-NET HOST COMPLETE UNIT RS485/232	74330-012000
R-NET BASE STATION	74330-012100
R-NET RTU 2XDO 2XDI	74330-012195
R-NET RTU 1XDO 2XDI SAF EXPANDABLE	74330-012200
R-NET EXPANSION CARD 2 X DO/2 X DI	74330-013140
R-NET CENTER UNIT HOST + BASE + BATT + PS+ANT	74360-007600
LI BATTERY 7.2V 9AH,400MA FOR RADIONET	74330-010210
R-NET DCP CAPACITOR CARD	74330-012240
RADIONET SOLAR PANEL KIT 9V-3W	74330-005760
R-NET BATTERY 6V 1.3AH SLA NP1.2-6	74330-003025
ENVIRONET EXPANSION CARD 235 2AN.INPUT	74370-003300
SERIAL EXPANSION CARD, RS232/485/SDI12	00035-013150
POLENET USB TO RJ45 RS232 CONVERTER	00035-014780
R-NET RTU PLATFORM CARD #307 (2XDO,2XDI)	74330-000002
R-NET SOL.PAN CHR.G.REGULATOR 6V	74330-002960
R-NET MOUNT.BRIDGE F/CHRG REGULAT.IN RTU	74330-005735
R-NET 8-WAY MULTIPLEXER MUX	74330-012150
R-NET DCP RTU 1XAI 3XDI EXCLUDE CAP CARD	74330-012230
R-NET EXPANSION CARD 2 X DO/2 X DI	74330-013140
R-NET HOST UNIT RS485/232 W/OUT BOX	74330-012020
R-NET MOUNT.BRIDGE F/CHRG REGULAT.IN RTU	74330-005735
R-NET SOL.PAN CHR.G.REGULATOR 6 V	74330-002960
NETACAP 3.5V REGULATOR CARD #297 FOR DFM	74330-000006

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