

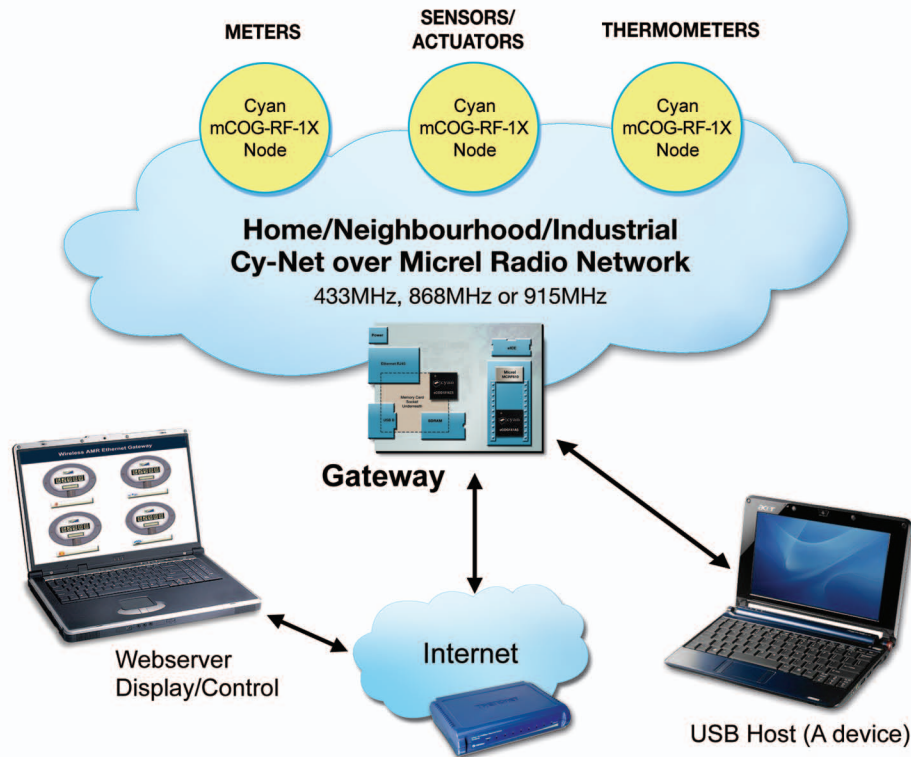


**ESSENTIAL TEAMWORK FOR WINNING DESIGNS**

## USB/Ethernet Gateway Solution for Cy-Net3™ over Micrel RadioWire™

Cyan USB/Ethernet Gateway for Cy-Net3 provides back channel connectivity, linking the RF network to a monitoring and control centre via the Internet but also with USB peripheral capability and a memory card connector. It is a board level solution, including power socket and a connector for the Cyan eICE debug interface.

The diagram below outlines the philosophy:



Part Number	Description
mCOG-UPE-1X-M1-B1-8	Board 868MHz W M-Bus + Ethernet + USB peripheral
EVALKIT-UPE-1X-M1-B1-8	Board + Dongle + Cables + CyanIDE CD
DEVKIT1X-USB/ETHERNET	USB/Ethernet Development Kit

*Other frequencies are available please contact: [sales@cyantechnology.com](mailto:sales@cyantechnology.com) for details*



# cyan

## Applications:

- Automatic Meter Reading (AMR)
- Advanced Metering Infrastructure (AMI)
- Home Area Networks (HAN)
- Industrial Wireless Sensor Networks (WSN)
- Security systems
- Process control

## Cy-Net3 Features:

- Ad hoc mesh networking
- Self forming, self healing
- Low power
- Small code size
- Simple, elegant and reliable protocols
- Modular design
- In-field programmable
- Unicast and Broadcast support
- Routes established as required; expire when no longer required
- Algorithms to ensure network stability under link/node failures and multiple routes

## mCOG-RF-1X-M1-4/8/9 Features:

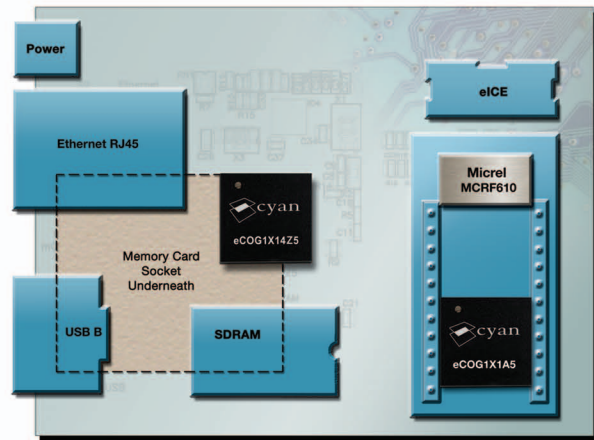
- 70MHz eCOG1X1A5 MCU
- Cy-Net3 RF Stack
- Micrel MICRF600/610/620 RF transceiver
- 433, 868 and 915MHz ISM Band frequencies
- AT command set interface

## Micrel MICRF6x0 Features:

- RadioWire™ programmable FSK transceiver module
- Supports half duplex bi-directional RF links
- Digital Bit Synchronizer
- Received Signal Strength Indicator (RSSI)
- RX and TX power management
- Power down function
- Register read back function

## Cyan MCU Features include:

- 70MHz eCOG1X14Z5
- 512KB Flash / 24KB RAM
- 10/100 Ethernet MAC
- USB 2.0 controller
- 5 multi-purpose timers
- Code security feature



*Image for illustrative purposes only*

## Software included with CyanIDE®:

- GNU C Compiler / Debugger, Eclipse IDE
- Webserver demo
- Open source TCP/IP stack with support for HTTP, FTP, SMTP, Telnet, DHCP, TFTP, BOOTP, SNTP & SNMP
- FAT16 / FAT32 filing system
- SD / SDHC / MMC low-level device interface
- USB CDC, HID and MSD (mass-storage) device classes

## Gateway Board Key Features:

- Small size approx 2" x 3"
- eCOG1X14Z5 MCU
- mCOG-RF-1X-M1 Cy-Net module
- 16MB external SDRAM
- SD/SDHC/MMC socket
- 100Base-T Ethernet PHY and RJ45 connector
- Preprogrammed MAC address and serial number
- USB 2.0 Full-Speed peripheral (B socket)
- Power connector
- eICE MCU debug interface
- Connectors arranged for easy panel mounting
- 0-70 deg C operating temperature range
- Single 3.3V supply
- FCC/ETSI/CE approvals pending



# MICREL®

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