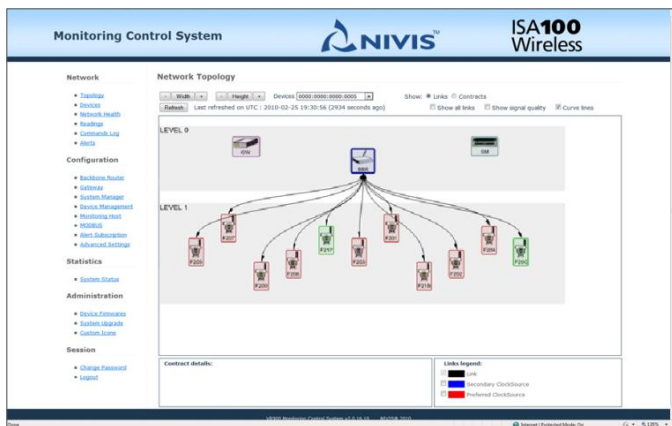




The Nivis **VersaRouter 800** (VR800) is an industrial wireless router board designed specifically for customers that are ready to integrate with their own enclosure and components to deliver a certifiable wireless solution. The VR800 is architected to support Nivis ISA100.11a or WirelessHART (VR810 model) software running on the same platform. From temperature sensors to gas monitors, the VR800 helps customers unlock valuable information about the status of their industrial network at a lower overall cost of ownership than non-standards based or legacy wired solutions.

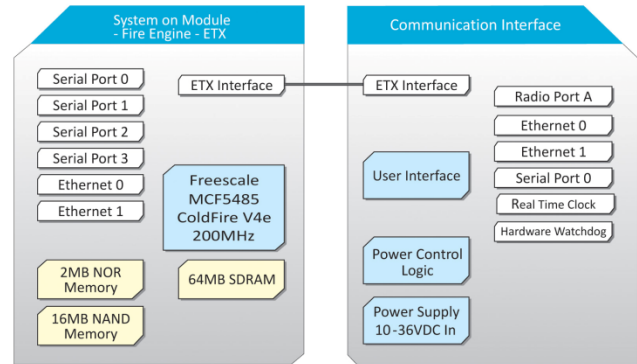
The VR800 board includes the software and integration capabilities to make it the best choice for any company planning to deploy and manage standards based, wireless mesh networks. With its ATEX Zone 2 and C1D2 nonincendive board design, the VR800 can be integrated into your product solution. The included software provides customers with the network management tools required for fast and comprehensive management of industrial wireless sensors. The router board enables integration and connectivity with your value added components.



In addition to the viewing of device data such as Device type, EUI-64 ID, Device Tag, the included Monitoring Control System (MCS) provides administrators with up to date monitoring and control of their sensors with publish messages rates of 10 per second and join times as fast as 20 seconds per device. From a full topological view to in-depth network health information about sensor devices, the VR800 delivers the information and integration capabilities that organization's require.

### Technical Features

Processor/Memory	Detail
Freescale MCF5485	Coldfire V4e microprocessor @200MHz with MMU and Hardware Encryption Engine
RAM memory	64 MB DDR SDRAM
Flash memory	16 MB NOR, 2MB BOOT
EEPROM	128 byte serial EEPROM (used for factory settings and configuration)
Peripherals/Software	Detail
Ethernet Channel	2 x10/100 Base-T Ethernet Channel, RJ45 connectors
Radio	1 x VN210 IEEE802.15.4 radio module
RS232	1x RS232 (console port), RJ45 connector, up to 115kbaud, 16-byte buffer
Operating System	Linux Kernel 2.6 Embedded
Modbus Support	Modbus TCP



**VR800 Block Diagram**

The VR800 with the MCS allows the administrator to configure alerts, set advanced parameters, update devices and router firmware, run and view command logs, review GDSU path reliability and latency. Administrators can even add their own custom sensor icons! Additionally, the integration capabilities such as the User Interface Connector and LED Connector enable customers to quickly add the VR800 into their own industrial wireless gateway.

### Technical Features cont.

Electrical & Mechanical Specs	Detail
Input Voltage	10...36VDC
Power consumption	~8.5-10W
Power over Ethernet (POE)	24V
Dimensions	159 mm x 130 mm x 40 mm (L x W x H)
Temperature Range	-40...+85C
Relative Humidity	Maximum 95%
Certifications	Detail
EMC: USA	FCC Part 15 Section 247
EMC: Canada	IC: RSS 210, must comply with FCC 15.247
EMC: EU	ETSI EN 300 328, ETSI EN 301 489-1, ETSI EN 310 489-17
EMC: Japan	MPHPT Chapter 3, Section 4.17, Article 49.20
HazLoc: ETL / cETL (USA)	ISA 12.12.01, CSA C22.2#213, UL 50, UL50E, CSA C22.2#94.1, CSA C22.2#94.2, UL 60950-1, CSA C22.2#60950-1
HazLoc: IEC (Japan)	IEC 60079-0, IECEx Zone2, IEC 60529 (Japan) IEC 60079-15 (Japan)
HazLoc: ATEX (CENLEC) (EU)	CENLEC EN 60079-0, CENLEC EN 60079-15, CENLEC EN 60529, ATEX Category 3G (Zone 2)
Add'l Safety: USA	IEC 60950:1999 Ordinary Safety Location Testing (equivalent to UL)
Add'l Safety: EU	CENLEC EN 60950-1 Ordinary Location Safety Testing
Features:	10 publish messages/second at 5 values each Backhaul via Ethernet Supports RS232 for console port IEEE802.15.4 radio