

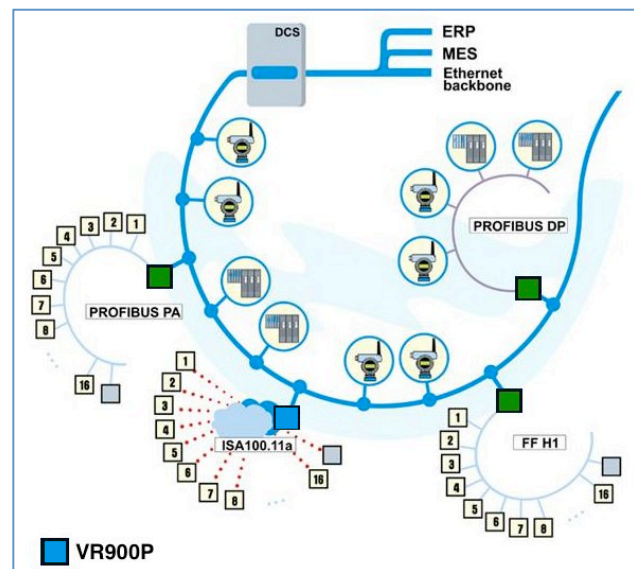


VersaRouter 900P

Datasheet

The Nivis **VersaRouter 900P** (VR900P) is an all-in-one, industrial wireless router designed specifically for customers that are ready to deliver market leading wireless solutions with PROFINET support. The VR900P is architected for both ISA100.11a and WirelessHART and delivers the core benefits of PROFINET with its flexibility, efficiency and performance. From temperature sensors to gas monitors, the VR900P helps customers unlock and route valuable sensor data to PROFINET IO controllers in their DCS.

The VR900P with PROFINET exposes ISA100.11a node data and provides poll data via an external client. PROFINET is the open Industrial Ethernet standard of PROFIBUS and is a leading process automation protocol for data communications in factory, process and safety application environments. It is ideal for applications that require high-speed data throughput. With its rugged enclosure and intrinsically safe hardware design, the VR900P can be mounted directly in your process environment.



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	1 x10/100Base-T Ethernet Channel, RJ45 connector
Radio	1 x VN210 IEEE802.15.4 radio module
Operating System	Linux Kernel 2.6 Embedded
PROFINET/PROFIsafe	Siemens PROFINET IO-device stack
Modbus	Modbus TCP
Antenna	2.4GHz, 5.5dBi, OUTDOOR OMNI ANTENNA, N-TYPE

The VR900P MCS management software, allows administrators to configure/view slot numbers, object IDs and method IDs within the Configuration settings of the console to match the GSDML in the PROFINET controller. The Nivis gateway software serves as the interface to the PROFINET Protocol Translator and the PROFINET stack within the system which communicates with the PROFINET IO controller.

Profinet					
Slot Number	41	EUI-64 Address	6202:0304:0506:F200	Save	
Slot Type	Regular	Object ID	100	Method ID	0
Add					
Slot Number	EUI-64 Address	Slot Type	Object ID	Method ID	
1	6202:0304:0506:F200	Regular	129	0	✗
3	6202:0304:0506:F201	Regular	129	0	✗
5	6202:0304:0506:F202	Regular	129	0	✗
7	6202:0304:0506:F203	Regular	129	0	✗
9	6202:0304:0506:F204	Regular	129	0	✗
11	6202:0304:0506:F205	Regular	129	0	✗
2	6202:0304:0506:F200	Safe	3	1	✗
4	6202:0304:0506:F201	Safe	3	1	✗
6	6202:0304:0506:F202	Safe	3	1	✗
8	6202:0304:0506:F203	Safe	3	1	✗
10	6202:0304:0506:F204	Safe	3	1	✗

Technical Features cont.

Electrical & Mechanical Specs	Detail
Input Voltage	24VDC
Power consumption	~8.5W
Power over Ethernet (POE)	24V
Dimensions	12.4" x 11.54" x 2.95" (L x W x H)
Enclosure /Dust & Water	NEMA 4x and IP67
Temperature Range	-40...+60C
Relative Humidity	Maximum 95%
Certifications	Detail
FCC: USA	FCC Part 15 Section 247
IC: Canada	IC: RSS 210, must comply with FCC 15.247
ETSI: EU	ETSI EN 300 328, ETSI EN 301 489-1, ETSI EN 310 489-17
Giteki: 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 (equivalent to UL)
Add'l Safety: EU	CENLEC EN 60950-1
Features	Details
	Supports up to 25 sensors
	Supports Field Device Tx every 2 seconds
	Supports PROFINET bus cycles of 128ms
	End-to-end delivery with max 2.5 seconds from field device to PROFINET controller
	2 layer mesh or star topology