

# ConnectPro Gateways

## VFG1000/2000/3000



### PRODUCT FEATURES

- Converts multiple serial and Ethernet protocols simultaneously
- Extensive built-in driver list for easy mapping to PLCs, PCs, and SCADA systems
- 10Base-T/100Base-TX Ethernet port supports four simultaneous protocols; up to nine (with expansion card)
- Independent serial ports provide unlimited integration methods

The Vlinx™ ConnectPro Gateway provides the functionality of a Protocol Converter, a Data Logger, a Virtual HMI and an Ethernet Gateway all in one powerful package. Three built-in independent serial ports and a 10/100 Base-TX Ethernet port allow discrete devices to communicate seamlessly. CompactFlash card slot allows configuration files to be created at a central location and distributed to field-installed units. The USB port may be used for fast file downloads, or mounting a CompactFlash card as a PC external drive. DIN rail mounting saves time and panel space and makes industrial installation easy.

### PROTOCOLS SUPPORTED

For complete list, visit [www.bb-elec.com/ConnectPro](http://www.bb-elec.com/ConnectPro)

ABB Com	IDEC Micro 3 Series / ONC
ACTech Simple Servo, UDP	IDEC Micro Smart Series
ADAM4000 Modules	IMO G Series, K Series
Allen Bradley DF1	IMO PLC-CNET
Allen Bradley DF1 TCP	Icron Modline
Allen Bradley DF1 PCC/EIP	Kollmorgen AC Drives
Allen Bradley DH485	Encapsulated Modbus over Ethernet
Allen Bradley Ethernet IP	Modbus TCP/IP, RTU, ASCII
Allen Bradley Ultra 3000	Omron C Series PLC
BACnet 802.3, MS/TP, UDP/IP	Omron FINS Ethernet, Serial
Bannor PresencePlus	Phoenix Contact nanoLC Serial, TCP/IP
CANOpen	Schneider Uni-Telway, TSX-47
Control Techniques	Siemens S5, S7 200, S7 300/400
Device Net	Siemens TI500
GE SNP, SNP-X, TCP/IP	Square D Symax
Hitachi H	Toshiba PL
Honeywell IPC620 PLC	

### ORDERING INFORMATION

MODEL NUMBER	WEB SERVER WITH VIRTUAL HMI	DATA LOGGING	ONBOARD SDRAM
VFG1000	No	No	2 MB
VFG2000	QVGA (320x240)	Yes	2 MB
VFG3000	VGA (640x480)	Yes	8 MB
EXPANSION CARD OPTIONS	INTERFACE	CONNECTOR	BAUD/FREQUENCY
VFG9000-CAN	CANopen	Terminal Block	up to 1Mbps
VFG9000-SERIAL	RS-232/422/485 & DH485	RJ45 - RS-422/285 & RJ12 - RS-232	up to 500Kbps
VFG9000-CEL	GSM/GPRS Cellular	SMA male	850/1900, 900/1800
VFG9000-PBDP	Profibus DP	DB9 female	up to 12Mbps
VFG9000-DN	DeviceNet	Terminal Block	up to 500Kbps
VFG9000-ENET	Ethernet	RJ-45	10/100Mbps

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### SPECIFICATIONS

#### SERIAL TECHNOLOGY

RS-232	RJ-45
RS-485 2-Wire	RJ-45, TxA, TxB, TxEN, GND
RS-422/485 4-Wire	RJ-45, TxA, TxB, RxA, RxB, TxEN, GND
Serial Connector	RS-422/485 (RJ-45)
Programming	USB 1.1 (type B) and RS-232 (RJ-12)
Data Rate	Up to 115,200 bps, software selectable

#### POWER

Source	External
Input Voltage	24 VDC
Connector	Removable terminal block

#### MECHANICAL

LED Indicators	STS, TX/RX, Ethernet, CF
Dimensions	13.46 x 10.54 x 7.85 cm (5.30 x 4.15 x 3.09 in)
Enclosure	High-impact plastic, stainless steel (DIN mountable)

#### ENVIRONMENTAL

Operating Temperature	0° to 50°C
Operating Humidity	80% relative, noncondensing

#### NETWORK

Onboard user memory	4MB of non-volatile flash memory
Onboard SDRAM	2MB, 8MB (VFG3000)
Memory Cards	Compact Flash, Type II slot for Type I and Type II cards Used for optional data base storage only

#### NETWORK COMMUNICATIONS

LAN	10/100 MB
Network Physical Layer Standards	
Ethernet	10Base-T, 100Base-TX (wired as NIC), RJ-45

#### PROTOCOLS

Protocols	See supported protocol list on first page
IP Mode	DHCP
	TCP/IP

#### REGULATORY / CERTIFICATIONS / SAFETY

Certifications/ Compliances	FCC, CE, cUL Listed, Class 1 Division 2 (Groups A, B, C, D) UL Listed, File #E222870, UL508, CSA 22.2 No. 14-M05 and File #E245458, ANSI/ISA 12.12.01-2007, CSA 22.2 No. 213-M1987; LISTED by Und. Lab. Inc. to U.S. and Canadian safety standards IEC 61010-1, EN 61010-1
EMC	EN 61326: 2006; EN 61000-4 (-2, -3, -4, -5, -6); EN 55011

### MECHANICAL DIAGRAM

