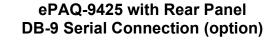# ePAQ-9410/9420 Multifunction Gateway

Bring your Substation Devices up to Full Productivity

The ePAQ-9410/9420 Multifunction Gateways should be at the core of your substation management program for the Smart Grid. Whether serving as an expandable front end for legacy RTUs or as the platform for the next stage of your distribution automation program, the ePAQ-9410/9420 can serve to connect the myriad intelligent devices within your substation to your larger enterprise in a reliable and secure fashion.

ePAQ-9425 with Rear Panel
DB-9 Serial Connection (option)

Data Concentration for your Substation Devices

The ePAQ-9410/9420 can integrate the complete catalog of IEDs using our library of legacy or open, industry standard protocols, be they serial or LAN based. In addition to data concentration, the unit can perform custom computations needed for filtering, translating, pre-processing or reduction. With ConfigWiz®, raw or processed IED data can be distributed to any remote enterprise via SCADA, maintenance or engineering activities through serial or WAN based channels. If needed, such transfers can be encrypted and authenticated for greater security.

- *Interface with all devices using any open Protocol and over any media*

- *Choice of RJ-45 or DB-9 Serial Port Connections*

- *Redundant architecture for critical applications*

- *Easy, Modular Expansion for additional Hardware I/O Points*

- *Serial ports may be configured for Rear Panel DB-9 Connectors (option)*

- *Security Tools available for meeting latest NERC-CIP and Cyber Security Requirements*

- *Quick and easy configuration with provided CpnfigWiz® Windows Software*

- *SD Memory Card and USB Ports for easy, but secure, User Expansion and Update*

- *Embedded Web Server and HMI for Local or Remote Display and Configuration*

- *HMI & Web Browser Support*

SPECIFICATIONS

Ports Capacities			
	ePAQ-9410 3U rack space, front or rear mounted	2-Bell 202T telecom legacy I/O 2-RS-232C (bit or byte) 1-SD/SDHC memory card IRIG-B (BNC, RS 485, serial fiber)	4-RS-232/RS-485 (switchable) 2-USB host ports, 1-USB Maint. Port. 2-100 BaseFX Ethernet 4-10/100 BaseTX Ethernet (RJ-45)
	ePAQ-9420 3U rack space, front or rear mounted	All ePAQ-9410 features **plus:**	16-RS-232/RS-485 (switchable) or 8-Serial fiber ports (multimode w/STconnectors)
	eXP-9430 Add-on expansion 1U rack space, front or rear mounted	Comm Port Expander 1-100 BaseFX Ethernet 1-10/100 BaseTX Ethernet 1-RS-485:IRIG-B	16-RS-232/RS-485 (switchable) or 8-Serial fiber ports (multimode / ST Connectors)

Hardwired I/O	Status: Maximum of 16,384 points at 64 points per I/O Interface Board Analog: Maximum of 8,192 at 32 points per I/O Interface Board Control: Maximum of 32,768 at 16 points per I/O Interface Board (up to 8 AGC raise/lower points)
Additional I/O	Secure and configurable HTML display server (local or remote), IED engineering access
Architecture	LINUX Real Time O/S. Option for redundant processors and/or communication with auto fail-over
Configuration	Through secure ConfigWiz® management program and browser based test panel via local USB maintenance port or local/remote IP connection. Full complement of data filtering, port switching, IED I/O control, and other management/diagnostic functions.
Network and Time	SNMP, NTP, PTP (IEC 1588), SNTP, IRIG-B. Supercap backup of internal real-time clock.
Programmable Logic	Programmable Logic and Communications Controller (PLCC)
Server Protocols	DNP3 (serial and over IP with secure authentication), Secure FTP, L&G 8979 (Serial and over IP), Modbus (RTU and TCP), QUICS (Serial and over IP), Tejas/Valmet Series III/V, BETAC, CDC I & II, Conitel, and others
Client Protocols	DNP3 (serial and over IP with secure authentication Modbus (RTU and TCP), IEC 61850, SEL Fastmeter/ASCII with device discovery, Large library of legacy SCADA protocols to interface older RTUs to upgraded, open systems and modern communication channels.
Power	48-125 Vdc, 120/240/277 Vac (50/60 Hz, +/- 10%)
LED Indicators	Indicators to display CPU health, power, communications, port activity and IRIG-B.
Environment	-40° to +85°C, (-40° to 185°F) 0-95% humidity (non-condensing)

V 4.8 9/24

ISO 9001
CERTIFIED