

## ePAQ-9710 Multifunction Gateway



### Realize the full potential of your substation devices

The ePAQ-9710 Multifunction Gateway brings together data concentration, protocol translation, and secure communication for your substation – allowing to integrate both legacy and modern IEDs into unified SCADA infrastructure.

Designed for real-world substation operations, the ePAQ-9710 can filter, pre-process, and compute IED data locally — reducing data volume sent upstream, improving network efficiency, and speeding up decision-making. Its flexible expansion options let you add additional communication ports or modules as your network evolves, helping future-proof your system.

Secure remote access — including encryption and authentication ensures data integrity and supports compliance with cybersecurity standards. The unit is built for harsh utility environments and designed for reliability, scalability, and long-term deployment.

Easy to configure, access and troubleshoot using QEI Browser HMI and the configuration software. The HMI browser also includes a protocol analyzer providing a real-time display of raw communications traffic.

- **High-Performance**  
Quad-Core Architecture
- **Supports 500+ devices**
- **Advanced**  
Cybersecurity Features
- **Additional Real time**  
Processor
- **Embedded Linux**  
Operating System
- **Flexible and**  
Expandable Networking
- **High Capacity Data**  
Handling
- **Integrated HDMI Output**
- **Space-Efficient 2U**  
Rack-Mount Design

## SPECIFICATIONS

|                    |  |  |   |
|--------------------|--|--|---|
| Processor          | NXP i.MX 8M Quad Core<br>ARM Cortex – A53 (General Purpose)<br>M4 Core (Real Time)   |  |   |
| Memory             | 4 GB LPDDR4 RAM  |  |   |
| Mass Storage       | Up to 2 TB   |  |   |
| Ports Capacities   | <b>ePAQ-9710</b><br>2U rack space,<br>front or rear mounted  | 6 RS232/RS485 - DB9<br>1 IRIG/RS485 Port(IRIG/DATA)<br>HDMI Video Port                     | 3 RS422 Backbone Ports<br>2 SFP+<br>4 SFP<br>Modulated Irig-B Interface<br>USB Maintenance Port |
|                    | <b>eXP-9430</b><br>Add-on expansion<br>1U rack space,<br>front or rear<br>mounted  | Comm Port Expander<br>1-100 BaseFX Ethernet<br>1-10/100 BaseTX Ethernet<br>1-RS-485:IRIG-B | 16-RS-232/RS-485 (switchable) or<br>8-Serial fiber ports (multimode /<br>ST Connectors)         |
| Hardwired I/O      | Status: 64 points per additional I/O Interface Board<br>Analog: 32 points per additional I/O Interface Board<br>Control: 16 points per additional 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 and 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, IEC 60870, IEC 61850, 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, Modbus (RTU and TCP), IEC 60870, 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              | Low Voltage Input (24-60 VDC), High Voltage Input (90-277 VAC 50/60 Hz / 100-140 VDC)  |  |   |
| LED Indicators     | Communication Status, Heartbeat, Power Supply  |  |   |
| Environment        | -40° to +75°C, (-40° to 167°F) 5-95% humidity (non-condensing)   |  |   |

### QEI

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