

RFL™ GARD PRO™ DIGITAL TELEPROTECTION



HPS/RFL is proud to announce an update to the GARD Pro protection communications platform to include support for digital teleprotection and communications multiplexing. With this upgrade, all the features and benefits of the existing GARD Pro Power Line Carrier, can now be realized for digital teleprotection and multiplexing applications. As a result, the existing digital teleprotection and communications interfaces from the GARD 8000® system are now compatible with the GARD Pro system, merging the extensive communications capabilities of the GARD 8000® with the GARD Pro user interface and system management features.

FEATURES AND BENEFITS

Extensive Communications Interfaces

Wide range of communications interfaces for use with various digital network infrastructure. This includes common leased, microwave, TDM networks and dark fiber infrastructure

Easy-to-Use Graphical User Interface

Designed for ease-of-use with intuitive status, configuration and system management features.

Expanded DNP3 and SNMP Capabilities

Improved high-performance DNP3 implementation with new status points for communications channel monitoring. SNMP Trap and SNMP Get support for all system variables.

Digital Multiplexing

Includes digital multiplexing capabilities to efficiently make use of unused communications bandwidth and simplify communications system requirements.

Remote Service Channel

Securely access the remote terminal's graphical user interface remotely, using the digital teleprotection channel.

Multi-Terminal Communications

Capable of complex multi-terminal communications schemes while maintaining high-performance latency, security and dependability.

Front Panel Comms Loopback Testing

Utilize the front panel touch screen display to activate communications loopbacks for testing/troubleshooting without connecting a PC.

Redundant Communications

Space-saving parallel and cross-connected redundant systems for single and multi-point redundancy without the need for extra equipment.



TECHNICAL SPECIFICATIONS

Chassis

- 3RU or 6RU – 19” Rack Mount
- 3RU Dimensions (HxWxD): 5.25” x 19” x 14.5”
- 6RU Dimensions (HxWxD): 10.5” x 19” x 14.5”

Digital Communication Interfaces

- E1/T1 – DB15M/RJ48C
- C37.94 MM/SM – ST
- 1300nm/1550nm MM/SM Fiber Optic – ST
- RS449/X.21/V.35 – DB37M
- G.703 64kbps Co-directional – DB15M
- Dual RS232 Async – DB9F (pass-thru only)

Maximum Capabilities

- Digital Teleprotection Module – 4 channels, 64kbps per channel, 8 functions each
- # of Digital Interfaces – 8
- # of Timeslots – 24 x 64kbps
- # of T1/E1 Interfaces – 2 (Terminal or Drop & Insert)
- # of Inputs/Outputs – 120 combined

ORDERING INFORMATION

See GARD Pro ordering information sheets for complete options list:

<https://www.rflect.com/images/products/pdfs/GARDProOrderingInfo3U.pdf>

<https://www.rflect.com/images/products/pdfs/GARDProOrderingInfo6U.pdf>

EXAMPLE SYSTEM

