

CLAXIFGPRS Modem Option Card for HAWK

Product Data



GENERAL

The CLAXIFGPRS modem option is part of the Centraline portfolio of hardware, software and tools designed for remote monitoring and control applications that enables end-to-end automation and device-to-enterprise integration. The CLAXIFGPRS modem option card allows a HAWK controller to communicate via cellular communications where connectivity to a LAN, WAN, or VPN is either unavailable or not desired. The connection is established via standard GPRS cellular modem using a local cellular service provider. Fitted with a small dual-band antenna, the CLAXIFGPRS option card may be installed in any HAWK 2 or HAWK 6 platform running Niagara AX 3.4 or higher. A service contract with an approved Cellular Service Provider is required.

CONNECTIVITY OPTIONS

There are two methods of connecting to the remote HAWK using the GPRS cellular option. The Point-to-Point Tunneling Protocol (PPTP) over the Internet is best suited for a one-to-one connection between the HAWK and a single user. This method is utilized for temporary access to the cellular device for either connection to use the tools, or to utilize a browser to monitor the HAWK. The most robust form of connectivity utilizes IP Security Protocol (IPSec). IPSec connects two firewalls or routers via a secure tunnel and is more reliable than a PPTP connection. This method has much higher bandwidth and will recover quickly from communication breaks in the connection. In addition, IPSec can be utilized to connect an entire user's LAN to the wireless network where the cellular GPRS connected devices exist.

SYSTEM REQUIREMENTS

Niagara AX version 3.5 or later running on a HAWK200 or HAWK600 series controller.

SPECIFICATIONS

- Quad-Band GSM (850/900/1800/1900 MHz)
- Utilizes an industry standard Siemens TC63 cellular communications module
- Typical Connection Speeds Download Speed: 30-60K Bps Upload Speed: 10-15K Bps
- GPRS Multi-Slot Class 12
 - Class 4 (2W) for EGSM850
 - Class 4 (2W) for EGSM900
 - Class 1 (1W) for GSM1800
 - Class 1 (1W) for GSM1900
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, and POP3
- Specifications for GPRS data Transmission: GPRS class 12: max. 86K Bps (DL & UL)
 - Mobile station class B
 - PBCCH support
 - Coding schemes CS 1-4
- Approvals: R&TTE, FCC, UL, IC, GCF, PTCRB, CE

APPLICATIONS

The CLAXIFGPRS is intended for applications where a connection to the customer's WAN/LAN/VPN is not available. Utilizing cellular technology, the Niagara enabled HAWK can be connected to the end-user's network with one of two (2) Virtual Private Network (VPN) techniques. See section "Connectivity Options" for details. This connection method provides the option to offer connectivity to customers who, in the past, have not had a method for a single stand-alone HAWK to communicate with the Internet or a customer's in-house WAN/LAN/VPN.



Fig. 1. Modem Option Card with antenna and Modem Option Card with 2-meter extension cable

FEATURES

- Provides remote access to HAWK where ISP connectivity is not otherwise available.
- Provides GPRS cellular network communication connectivity.
- Fits into either expansion slot of a standard HAWK-2 or HAWK-6.
- Includes an antenna mounted directly to the option card, or an optional 2-meter extension cable to re-locate the antenna away from the HAWK.
- Standard plug-in Subscriber Identity Module (SIM) slot for cellular service provider specific connection information.
- Supports Niagara AX SMS service for direct alarm messaging from the HAWK (licensed feature, purchased separately).

HOW TO ORDER

CLAXIFGPRS:

Modem option card including the standard antenna which mounts directly to the side of the option card

CLAXIFGPRSACC:

Optional two-meter extension cable with mounting bracket to extend the antenna connection to a more remote location. Typically utilized to re-locate the antenna outside of a metal enclosure

No SIM provided with the modem. Cellular service provider must be negotiated by the installer.

ARCHITECTURE

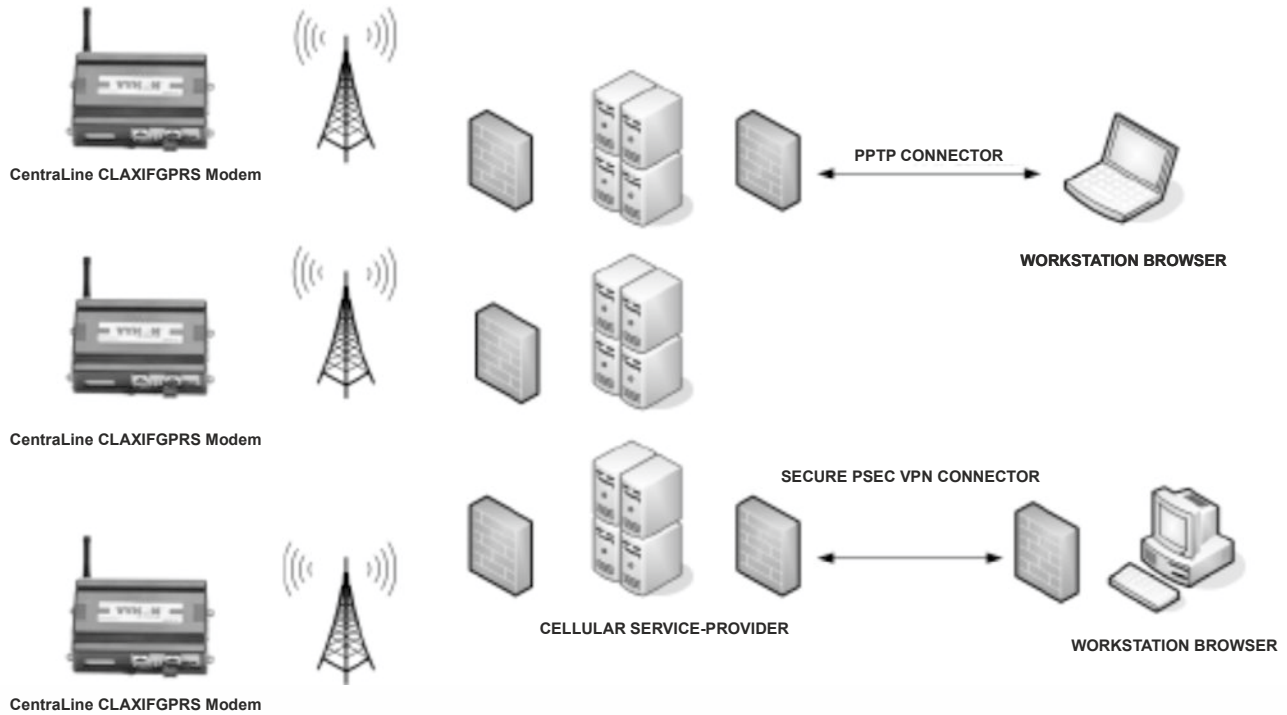


Fig. 2. Architecture

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