G3 Technologies, Inc.

PROVIDING NEXT GENERATION WIRELESS SOLUTIONS

Polly Tactical
GSM Co-Processor

FEATURES
- Passive decryption of ciphered GSM events over the air-interface using the A5/1 algorithms.
- Up to 19 cracks per second with up to 99% success rate (average 10+ cracks per second at 75%+ success rate, dependent on signal quality. Success rate will increase over time as the system learns.)
- Cache stores up to 20,000 previously solved keys
- Ruggedized, small form factor
- Can be integrated with any GSM receiver
- Easy to setup and configure via WebGUI or LCD
- 3 x 10/100/1000 Base-T Ethernet Interface
- Designed, manufactured and integrated in the U.S. by U.S. citizens

KIT CONTENTS
- Polly Tactical System
- Power Supply
- Cabling
- Rugged Transit Case
- USB Thumb drive with Polly Tactical Documentation

APPLICATIONS
- Can be used with existing and future G3 Technologies receivers
- Additional work required for 3rd party receivers
- Time agnostic decryption – the Polly Tactical will crack data as data is fed to it, whether it is in real-time or post-processed data.

DESCRIPTION

The Polly Tactical is designed to be used in tandem with existing and future G3Technologies receivers and an SG50X Tactalytics platform to seamlessly enable the collection and analytics process. The Polly Tactical system has an API that will allow any 3rd party vendor to utilize the capability, making it sensor agnostic.

The Polly Tactical can process random fill bit (RFB) data. Networks use fill bits in message data frames for padding since the frames are expected to be a specific size. The standard procedure is to use "2B" in hex, which is predictable and weakens the cipher. The more secure method is to use RFB, so instead of a message padded with "2B2B2B2B", the Polly tactical utilizes randomized bits such as "A73CF1B9" at the end of the frame, which is more difficult for message prediction algorithms to attack. The Polly Tactical's algorithms can handle both RFB and standard data.

Small size and low power allows the Polly Tactical to be used in any mission scenario and is optimized for small team and untethered operations.

TECHNICAL SPECIFICATIONS

Network Standard	Network Standard GSM A5/1 on any band
Processing Capacity	Processing Capacity Up to 19 cracks per second under optimal conditions
Client Interface	Client Interface 10/100/1000BaseT Ethernet

SWaP DETAILS

Size	9.65"W x 4.8"H x 13.11"L
Weight	5.25 lbs
Power	40W, 9-36 VDC

System specifications subject to change without notice, contact factory for current specifications.

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