

GEM NGDP-10

Digital Audio Data Packet Transmission System

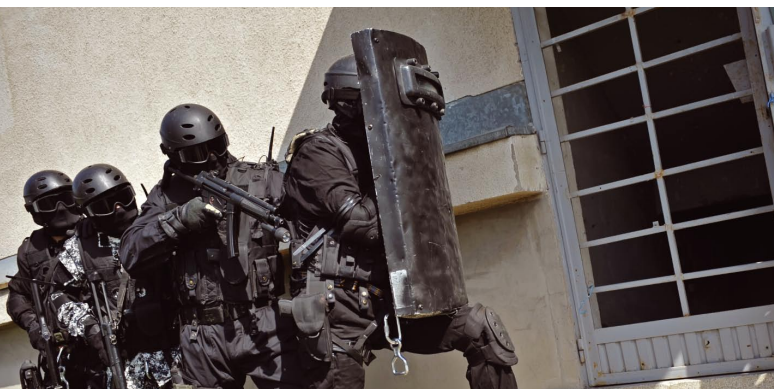


Features

- Stand alone, field-ready system
- Very small size of the transmitter
- Digitally encrypted data packet transmission
- Multi-channel receiver with built-in SD card recorder
- Fully commandable transmitter
- Digital packet audio in several short burst
- Multi-frequency transmission
- Low current consumption (35mA)

Applications

- Innovative tactical system for covert audio surveillance
- Designed for hidden installations
- Standard indoor surveillance operations
- Long-term deployments, very difficult to detect
- Close protection monitoring
- Suited for use in SWAT & tactical task forces
- Homeland Security



Digitally encrypted data packet transmitter



The GEM NGDP-10 digital audio data packet transmitter is a fully commandable transmitter offering high levels of protection from interception.

The NGDP-10 data packet transmitter is suitable for most concealments, making it an indispensable intelligence gathering tool for undercover operations, available as a flat PCB transmitter or camouflaged in a car keyfob with rechargeable Li-Pol battery.

The NGDP-10 transmitter is fully remote controllable, enabling users to switch on/off or change the channel. Two operating modes allow choosing either one or multiple frequency transmission technology, thus increasing the reliability of transmission. While in stand-by mode the transmitter is passive and therefore can not be detected by RF spectrum analysers.

The 16 channel receiver with built-in SD card recorder offers all the necessary tools for an operation. Multiple NGDP-10 transmitters may be used with a single receiver.

Technology

Audio is transmitted in several short burst per second using max. bandwidth of 19kHz, this makes it difficult to detect with conventional receivers. The transmitter uses multi-channel GFSK digital modulation to guarantee protection of transmitted data. The audio format is 16-bit, 8kHz, LPC compression. ■

Technical Specifications

Transmitter	
Frequency range	868 - 880MHz
Power output	10mW
Range	50m in buildings (up to 200m in open air environment)
Supply voltage	2.1 - 6V
Power consumption	30mA for channels 1 - 8 at 3.7V 35mA for channels 9 - 16 at 3.7V
Power consumption (stand-by)	<1mA
Audio format	16-bit, 8kHz, LPC compression
Digital modulation	multi-channel GFSK
Duty cycle	30%
Battery type (standard Tx)	CR123 (can also be supplied with flying leads)
Battery life	30hrs (continuous transmission) 400hrs (stand-by)
Dimensions	57mm(L) x 19mm(W) x 4mm(H)
Receiver	
Channels	16 RF channels
RF sensitivity	-102dBm
Antenna connector	SMA
Power consumption	40mA
Power supply	9V battery
Recording	SD card, WAV 8kHz, 16-bit
Dimensions	115mm(L) x 72mm(W) x 26mm(H)

Product Codes

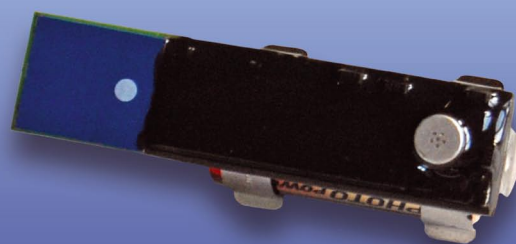
GEM NGDP-10 Digital Audio Data Packet Transmission System - Full Systems

- 3-299-537** GEM NGDP-10 Digital Audio Data Packet Transmitter, 10mW with internal microphone, plus 16 channel receiver with built-in SD card recorder, receiver antenna and guidance manual
- 3-299-538** GEM NGDP-10 Digital Audio Data Packet Keyfob Transmitter, 10mW, plus 16 channel receiver with built-in SD card recorder, receiver antenna and guidance manual

GEM NGDP-10 Digital Audio Data Packet Transmission System - Components

- 3-299-539** GEM NGDP-10 Digital Audio Data Packet Transmitter, 10mW
- 3-299-540** GEM NGDP-10 Digital Audio Data Packet Keyfob Transmitter, 10mW
- 3-299-541** GEM NGDP Multi-Channel Receiver (16ch.) with built-in SD card recorder & antenna

Audio is transmitted
in several short bursts



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