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Wireless Mobile Video Solutions

Infodraw TMRS-102 GSM & WI-FI Media Relay System

Product Specification

Overview

TMRS-102 is a smart, small, handheld, wearable streaming media system over cellular & WI-FI network. It allows to stream video/audio/location live and **monitoring** video, audio upon alarm/request.

Key Features

- **Handheld, wearable small form factor**
- Real embedded system (design for cellular network)
- **Built-in cellular module (need only SIM)**
- **Built-in WI-FI network supports 802.11 B/G/N**
- Live **video/audio/location** streaming (low latency)
- **Dual encoding (recording and streaming)**
- High performance DSP based CODEC (H.264)
- **Built-in local recording (128MB)**
- **Sleep mode and scheduler (months) using battery only**
- **Optional Encryption**
- 1 Analog video input CIF/D1
- 1 video over IP
- 1 audio over IP (2 ways)
- Monitoring video/voice
- Bit rate/Frame rate remote control
- Automatic bandwidth control
- Alarm push button
- Motion detection
- **Built-in lithium battery 4000mA (5 hours streaming)**
- Very low power 0.5 Amp while streaming (5v)
- **Schedule operation with micro Amp power**
- Built-in 5v output to camera
- **Local recording on flash media micro SD (SDHC)**
- Recording on remote monitoring
- Web streaming using flash client
- Permission capability for different access level
- Upgrade firmware on the fly
- Small form factor
- Support **iPhone** and **Android** phone clients



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Technical Specifications

Video

Video Input	2.5 mm video/audio/power 5v plug	PAL/NTSC (BNC Adapter)
Video compression	H.264 Dual encoding (stream/record)	Up to D1
Bit rate	From 10kbs to 2Mbps	
Frame rate	Up to 25/30	
PTZ Control	Built-in RS-485 (T+, T-)	

Audio

Audio Input	Built-in microphone or Line in	
Audio output	Line out	
Audio compression	AAC	

GSM

GSM	Built-in (need only SIM)	HSPA/3G/EDGE/GPRS
Antenna	Built-in	
Bandwidth control	Automatic	

WI-FI

	802.11 b/g/n WEP/WPA2	
Antenna	internal	
Bandwidth control	Automatic	

Alarm Button

Push button	On surface	
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Memory

Micro SD	Slot (max bit rate according to micro SD write speed)	Up to 32g
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I/O

4 Input/4 output	Built-in Through cable interface	Dry contact
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Power

Power Input	5V (12v/24v to 5v adapter)	AC/DC to 5V adapters
Power consumption	500mA while streaming	
Battery Lithium	Built-in 4000 mAh (5 hours streaming)	
Power output	5v output to camera	

Environment

Temperature Input	-10 +70	
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Physical

Dimension	5 x 10 x 2.8 cm	
Weight	130 gr	

Other Interfaces

USB client	Built-in	For Setup
RS-485 for PTZ	Pelco D	
video/audio/power cable	Splitter cable with RCA, audio, 5V power	
Audio in/out mic cable		
LAN	10/100 Built-in Through cable interface	
External HD through LAN		

Protocols

RTP/RTSP/SDP		
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TMRS-102 System Advantages:

- Supports both WI-FI and GSM
- Automatic switching between WIFI and GSM network
- Handheld, wearable small form factor
- MRS architecture is based on MRS server
- Units can stream with the highest bandwidth exist
Regardless number of clients
- Automatic bandwidth control by the units
- Multi clients to multi units communication using the server
- Remote signal strength and battery capacity
- Unit remote control streaming parameters bit rate, fps, recording, events

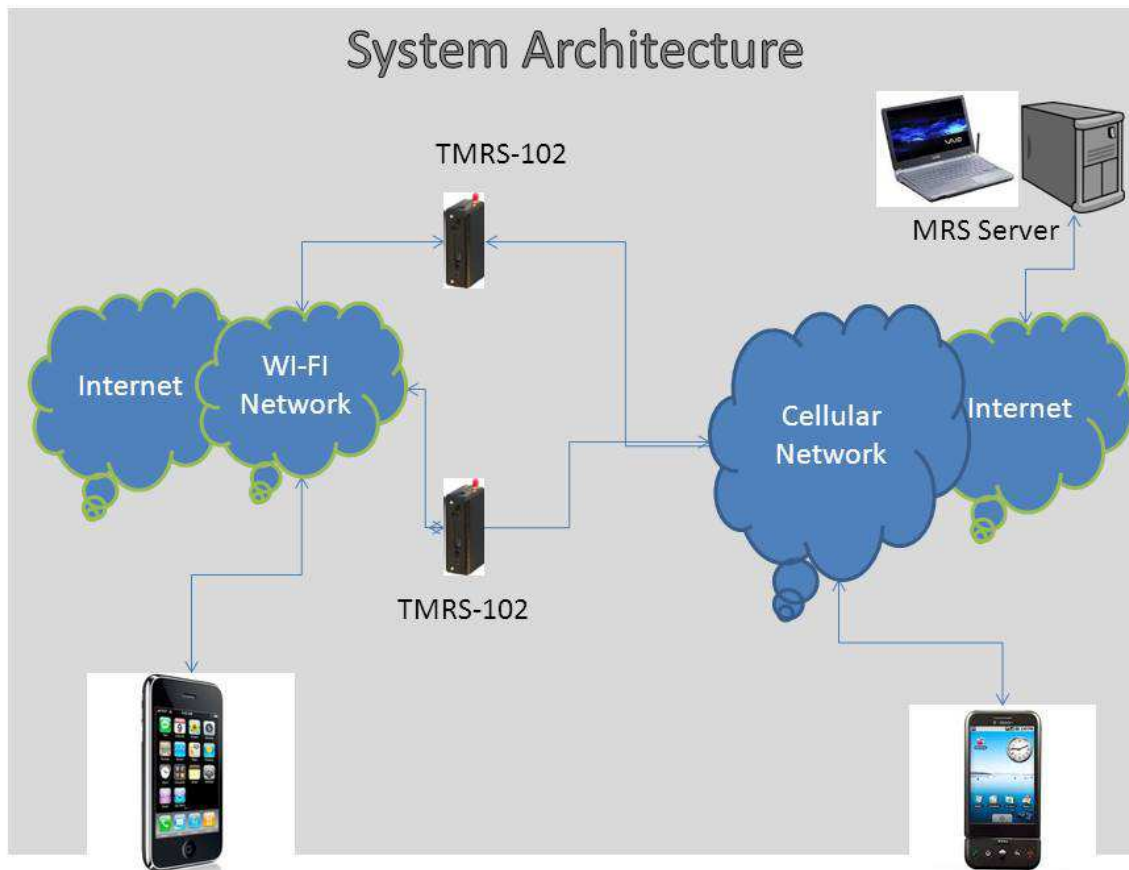


Figure 1- TMRS-102 System Architecture