



FireBird™ F-100 5G Video Encoder



Ultra-compact video encoder with 5G cellular for fast, secure, low-power deployment.

Real time video streaming at the Speed of 5G

The **FireBird™ F-100 5G** brings real-time intelligence to the edge with next-gen cellular connectivity and enhanced SWaP performance. Built on the trusted FireBird™ F-100 architecture, this compact encoder now delivers tactical-grade video streaming via **5G**, all at just **250mA** of power.

The **FireBird™ F-100 5G** comes pre-installed with **FireLight™**, our bandwidth efficient video encoding software, which enables real-time video streaming at high resolution, up to **30fps full HD**. If the network bandwidth drops, it adjusts the video encoding automatically, down to as little as **1 kbps**, while maintaining usable image quality. Whether deployed on static sites, drones, tactical vehicles, or embedded in soldier kits, this unit provides continuous operational visibility anywhere, under any network condition.

Key Capabilities

- ✓ **Integrated Comms:**
Built-in 5G/4G modem with GPS and low-latency networking
- ✓ **Power-Efficient:**
Consumes ~4W (250mA @ 12VDC), ideal for battery use
- ✓ **Video Inputs:**
Supports ONVIF/RTSP (video protocols sent from camera) and tactical sensors (EO or IR) or USB
- ✓ **Ultra-Low Bandwidth Encoding:**
Live streams from just 1 kbps with adaptive compression
- ✓ **Total Recall™ High Resolution Pixels Retrieval:**
Retrieve hi-res pixels from selected areas of interest within the low-res stream
- ✓ **Multi-Stream Support:**
Simultaneously stream multiple feeds from the same encoder with adjustable settings
- ✓ **Edge Recording:**
Onboard SD storage preserves original source footage for review or retrieval
- ✓ **Secure by Design:**
AES-256 encryption



Built for High-Mobility Video Streaming

Compact (93.3mm x 49.5mm x 35mm) and **lightweight** (0.13 kg), the FireBird™ F-100 5G is designed for operations where space and power are limited. It's ideal for:

- Dismounted soldier systems
- Small UAVs and ground robotics
- Tactical border patrol units
- Remote surveillance operations

Stream Anywhere, Integrate Everywhere

- Transmit over 5G, satcom, mesh, radio, or cellular
- Compatible with third-party VMS ONVIF, RTSP, VMS, ATAK, and NATO C2 platforms Videosoft secure apps (Windows, Android, iOS) also available
- Auto-reconnect and stream resync ensure uninterrupted situational awareness

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FireBird™ F-100 5G Specification

Streaming Capabilities	
Camera Inputs	1 Ethernet, 1 USB-C Ethernet adapter or 1 USB camera with UVC, up to 4 with a switch
Stream Outputs	Up to 2 simultaneous stream outputs in full HD
Encoding	1 kbps low-res to 3Mbps full HD transcoding and Native mode
Mechanical & Environmental	
Dimensions	93.30mm (L), 49.50mm (W), 35mm (H)
Operating Temperature	-30°C to +85°C
Power Input	Power Input 7-14 V (DC plug 5.5x2.5mm center pin), Power Consumption ~4W
Video in	IP Camera over GbE, USB Camera over USB 3.0
Network	GbE (RJ45), 4/5G Cellular
Storage Media	32GB EMMC (OS installed), Up to 1 TB Micro SD
Weight	0.13KG
Consumption	250mA @ 12VDC
Interface & Connectors	
Ethernet	1x RJ45
USB	1x USB-OTG (Type C)
Recording	Micro SD card slot (up to 1Tb) or external storage
Modem	5G LTE cellular modem w/GPS Micro SIM Push-Push slot
Antenna Connection	2x SMA Female – LTE Main and GPS (LTE Aux optional to replace GPS)
Hardware-based security	Support TPM 2.0 and Secure Boot
Accessories	
Included	2x Multiband Antennas, Power connector and lead

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