



FireBird™ F-100 LTE Video Encoder



**Stream Real Time Video. From Anywhere.
Compact. Proven at the Edge.**

Small Footprint. Big Tactical Advantage.

The **FireBird™ F-100 LTE** is Videosoft's compact, field-proven video encoder, engineered for edge-based missions where size, weight, and power (SWaP) are severely constrained.

The **FireBird™ F-100 LTE** 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 4G modem with GPS and low-latency networking
- ✓ **Power-Efficient:**
Consumes 8.5W @ 12VDC (fan off), 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 (105mm x 47mm x 25mm) and **lightweight** (0.2 kg), the FireBird™ F-100 LTE 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 LTE, 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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CONTACT US FOR MORE INFO:

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FireBird™ F-100 LTE Specification

Streaming Capabilities	
Camera Inputs	1 Ethernet, 1 USB-C Ethernet adapter, up to 4 with a switch
Stream Outputs	1 - 4 simultaneous stream output options up to full HD
Encoding	1kbps low-res to 3Mbps high-res 1080p 30fps transcoded or unlimited Native mode
Mechanical & Environmental	
Dimensions	105mm (L), 47mm (W), 25mm (D)
Operating Temperature	-10°C to +45°C ambient
Power Input	12v DC (LEMO FGG.00.302.CLAD35)
Video in	IP Camera over 100MB
Network	100MB (RJ45), 3/4G Cellular
Storage Media	64GB EEMC (OS installed), Up to 512GB Micro SD
Weight	0.20KG
Consumption	8.5W @ 12VDC (fan off)
Interface & Connectors	
Ethernet	1x RJ45
USB	1x USB-C for storage or ethernet adapter for camera connection
Recording	Micro SD card slot (up to 1Tb) or external storage
Modem	4G 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)
Accessories	
Included	2x Multiband Antennas, Power connector and lead

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