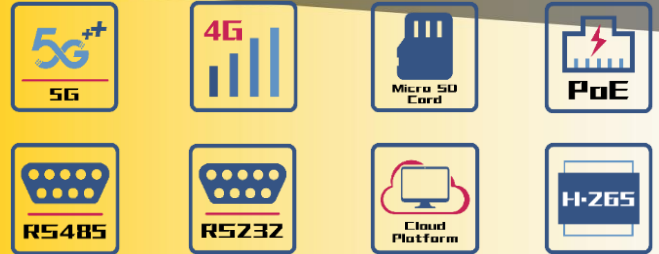


5G/4G PoE Network Video Recorder

F-NVR100



Introduction

F-NVR100 is a 5G/4G PoE network video recorder specially designed for intelligent IoT surveillance system. The NVR can provide long distances and low latency HD video wirelessly by using the industrial 4G/5G module. In addition, F-NVR100 support 8 channels H.265/H.264 video input, has 1 SATA HDD, the storage capacity up to 6TB. Support third-party ONVIF Profile T cameras, provide the IoT interfaces such as RS232 and RS485 to connect the IoT devices for the IoT applications.



Industrial-grade Design

- ▶ High-performance industrial-grade wireless module
- ▶ Metal casing, protection grade IP30. Metal housing and system safety isolation
- ▶ Industrial-grade components



Stability & Reliability

- ▶ WDT Watchdog design to ensure system stability
- ▶ Support plug & play, automatically set up and start to record
- ▶ Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- ▶ RS232/RS485 interface power and data isolation with CSA, UL, and IEC standards
- ▶ SIM/UIM card interface built-in 15KV ESD protection
- ▶ Built-in reverse phase protection and over voltage protection for power interface



Standard & Convenience

- ▶ Standard RS232, RS485 and Ethernet interfaces
- ▶ Front-end edge integration and equipment intercommunication linkage
- ▶ Easy to use, flexible, multiple working mode options

5G/4G PoE Network Video Recorder F-NVR100



High Performance

- ▶ Support various IoT protocol
- ▶ HDMI video output up to 4K (3840X2160) resolution
- ▶ Integrated with most common IoT interfaces
- ▶ Support IPC event trigger & image capture
- ▶ H.265, optimized in bit rate, bandwidth, and storage usage, 50% off than H.264.
- ▶ Provide 8 PoE ports, support 802.3AF, 802.3AT
- ▶ Support remote management & upgrade

Product Specification

Hardware	
Model	F-NVR100
Items	Contents
CPU	ARM Cortex A7 Dual-core 1.3GHz
FLASH	64MB
DDR3	512MB
Video	
Items	Contents
Input	8 channels HD IP Video Input
Output	1 x HDMI, Resolution(@30fps): 3840x2160, 1920x1080, 1280x720, 1024x768
Decoding Format	H.265 / H.264
Video Input Protocol	ONVIF (3.0), PELCO, RTSP, etc.
Capability	4x1080p@30fps
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/2CIF/CIF/QCIF
Audio	
Items	Contents
Input	8 channels from IPC
Audio Compression	G711-Alaw, G711-Ulaw, AAC-LC
Sample Rate	8KHz, 16KHz
Voice Talkback	1 channel RCA Input, 1 channel RCA Output ADPCM Format
Storage	
Items	Contents
Hard Disk	1 x 2.5-Inch, SATA Interface
Capability	Up to 6TB each HDD (Optional)
MicroSD Card	1 x MicroSD Slot Storage up to 512 GB

5G/4G PoE Network Video Recorder F-NVR100



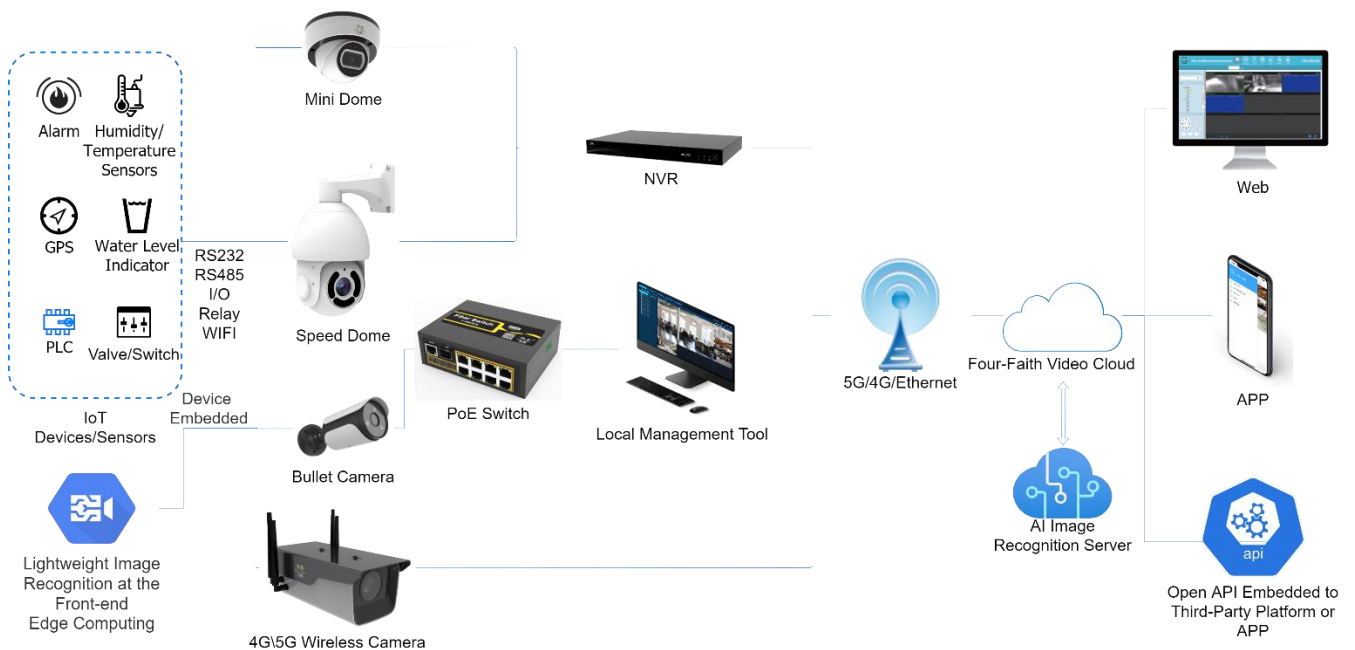
Interface	
Model	F-NVR100
Items	Contents
WAN	1 x 10M/100M/1000M RJ45 Ethernet Port
LAN	8 x 10M/100M/1000M RJ45 Ethernet Port Support PoE 802.3af/at
Serial Port	1 x RS232, 3 x RS485/RS232 Multiplex
USB	2 x standard USB2.0
Digital Input	6
Digital Output	4
Relay Output	2
ADC	8
Cellular (Optional)	
Items	Contents
Standard & Band	5G NR, 4G LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	5G NR: Downstream rate 3.4Gbps, uplink rate 350Mbps LTE Cat20: Downstream rate 2.0Gbps, uplink rate 150Mbps FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
Transmit Power	< 23dBm
Sensitivity	< -97dBm
Power	
Items	Contents
Power Supply	Terminal Block
Power Range	Non-PoE: DC 12~36V PoE: 48V
Power Consumption	Non-PoE < 24W PoE < 120W Standby Current < 10mA (12V)
WIFI	
Items	Contents
Standard & Band	Support IEEE802.11b/g/n, 2.4G, support AP & Client mode
Bandwidth	IEEE802.11b/g: Maximum speed rate 54Mbps IEEE802.11n: Maximum speed rate 150Mbps
Transmit Power	26dBm (11b), 21.5dBm (11g), 20dBm (11n)
Sensitivity	< -72dBm @ 54Mbps

5G/4G PoE Network Video Recorder F-NVR100



General	
Items	Contents
Casing	Metal, IP30
Dimensions	182 x 152 x 45mm (W x D x H)
Weight (without HDD)	1.5 KG
Working Temperature	-10°C ~ + 75°C (+14°F ~ +167°F)
Working Humidity	90% (non-condensing)

Topology



5G/4G PoE Network Video Recorder F-NVR100



Dimension (mm)



Note: There may be differences between models of accessories and interfaces, actual products shall prevail

5G/4G PoE Network Video Recorder F-NVR100



Order Information

Models	Description
F-NVR100-8C-4G	1 X 10/100/1000M WAN RJ45 port, 8 x 10/100M LAN RJ45 ports, High-speed 4G cellular module & 2.4GHz WIFI module
F-NVR100-8C8P-4G	1 X 10/100/1000M WAN RJ45 port, 8 x 10/100M LAN RJ45 ports with PoE, High-speed 4G cellular module & 2.4GHz WIFI module
F-NVR100-8C8P-5G*	1 X 10/100/1000M WAN RJ45 port, 8 x 10/100M LAN RJ45 ports with PoE, High-speed 5G cellular module & 2.4GHz WIFI module

*In development