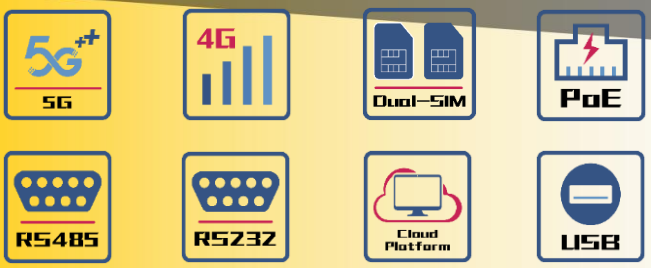


Four-Faith

AI Video Box

FGV100



Introduction

FGV100 is a 5G/4G AI Video Box tailored for intelligent surveillance. Featuring 5G/4G PoE, 13Tops computing power, and seamless IoT integration. With flexible expansion options, it ensures adaptable monitoring solutions. Compatible with the Four-Faith IoT platform, it enables comprehensive data and image monitoring, empowering users to build robust security architectures. Ideal for businesses seeking reliable surveillance infrastructure capable of meeting evolving security demands while leveraging advanced technology for enhanced surveillance capabilities.

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
- SIM/UIM card interface built-in 15KV ESD protection
- Built-in reverse phase protection and over voltage protection for power interface

Standard & Convenience

- Built-in 4 POE network interfaces, supporting 802.3AF and AT protocols
- Plug and play, automatically completes the configuration of all IP cameras

AI Video Box FGV100



High Performance

- Supports 4 channels of H.265/H.264 video input
- Video Input Capacity: 4 channels (1920×1080@30fps)
- Video Parallel Forwarding Capacity: 4 channels (1920×1080)
- Video Decoding Capacity: 4 channels (1920×1080@30fps)
- Video Encoding Capacity: 4 channels (1920×1080@30fps)
- Supports SATA hard disk access, and supports 256GB Micro SD card storage
- RS232 and RS485 interfaces default to a transmission rate of 9600bps, with optional rates of 1200bps, 2400bps, 4800bps, and 19200bps.

Product Specification

Hardware	
Model	**FGV100**
Items	**Contents**
CPU	4-core 64-bit Cortex-A55 2.0 GHz
FLASH	2GB
DDR3	16GB
GPU/NPU	1 Tops (Can be expanded to 13 Tops)
Storage	
Items	**Contents**
Hard Disk	SATA Interface
SD Card	Micro SD Card, up to 256GB
Interfaces	
Items	**Contents**
WAN	1 x 10M/100M/1000M RJ45 Ethernet Port
LAN	4 x 10M/100M RJ45 Ethernet Port, PoE(Optional)
Serial Port	2 x RS232, 2 x RS485, 4x RS232/RS485
USB	1 x USB 3.0 1 x USB 2.0
Digital Input	6
Digital Output	4
SIM Card	Dual SIM card with single module
LED Indicator	POWER, SYSTEM, WLAN, ERROR, HDD, ONLINE (Specific colors can be customized)
Reset	Reset Button

AI Video Box

FGV100



Power	
Model	**FGV100**
Items	**Contents**
Power Supply	Terminal blocks, DC, dual redundant power sources
Operating Voltage	Terminal input: Wide voltage 9 to36V DC input: Wide voltage 9 to 36V
Power Consumption	DC output: 1 x 12V 2A, 1 x 5V 2A (Compatible)
Cellular	
Items	**Contents**
Standard & Band	5G NR, 4G LTE FDD, LTE TDD
Algorithm（Optional）	
Items	**Contents**
Standard AI Features	Motion Detection, Area Intrusion, Cross-Line Detection, Human-Vehicle Recognition, License Plate Recognition, Object Left-Behind Detection, Mask Detection, Safety Helmet Detection, Water Level Recognition
Algorithm Types	Supports various intelligent algorithms such as human and vehicle recognition, passenger flow statistics, water level detection, mask recognition, etc. Also, it supports in-depth customization of various target detection and tracking algorithms for industry-specific scenarios.
Algorithm Library Management	Supports algorithm parameter management and algorithm upgrade management.
Algorithm Configuration	Allows configuration of algorithms for different channels.
Other	
Items	**Contents**
Casing	Metal casing, IP30
Dimensions	182 x 152 x 80mm (W x D x H) (Excluding antennas), customizable casing dimensions available
Operating Temperature	-35°C to 75°C
Humidity	0% to 90%, non-condensing
Atmospheric Pressure	86kPa to 106kPa
Warranty	1 year

AI Video Box

FGV100



Dimension (mm)



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

Order Information

Models	Description
FGV100-4C-NZZ	1 x WAN, 4 x LAN, 6 x DI, 4 x DO, 2 x RS232, 2 x RS485, 4x RS232/RS485,1 x USB 3.0, 1 x USB 2.0, Dual SIM, Standard AI Features
FGV100-4C4P-NZZ	1 x WAN, 4 x LAN (POE), 6 x DI, 4 x DO, 2 x RS232, 2 x RS485, 4x RS232/RS485,1 x USB 3.0, 1 x USB 2.0, Dual SIM, Standard AI Features
FGV100-4C-5G	1 x WAN, 4 x LAN, 6 x DI, 4 x DO, 2 x RS232, 2 x RS485, 4x RS232/RS485,1 x USB 3.0, 1 x USB 2.0, Dual SIM, Standard AI Features, 5G/4G Cellular Network
FGV100-4C4P-5G	1 x WAN, 4 x LAN (POE), 6 x DI, 4 x DO, 2 x RS232, 2 x RS485, 4x RS232/RS485,1 x USB 3.0, 1 x USB 2.0, Dual SIM, Standard AI Features, 5G/4G Cellular Network