# QG-615AI67 Datasheet

Edge AI terminal, 16 channels, 28.8 TOPS on board

## Overview

The QG-615AI67 is an edge AI terminal that decodes and analyses sixteen 1080P camera channels inside the box and sends structured records to a platform. Streams arrive over four RJ45 ports in RTSP, RTMP, ONVIF or GB28181. Detection runs on a quad-core ARM Cortex-A53 with an integrated 28.8 TOPS NPU, so a rule fires on the unit and no server sits between camera and alarm. Captures, classes and attributes go out to the platform as records. The case is fanless, 235 x 160 x 53 mm, and draws 5 W.

## Key Features and Benefits

### Sixteen channels in one fanless box

Sixteen 1080P channels in H.264 or H.265 decode and analyse at the same time. The split by area is set in the interface, not by hardware.

### Inference on the unit

A 28.8 TOPS NPU and 8 GB LPDDR4X run the detection locally. A rule fires without a round trip to a server, and the terminal keeps working when the uplink is down.

### Cameras stay as they are

ONVIF, RTSP, RTMP and GB28181 stream in over LAN1 and LAN2. Existing cameras connect direct, with no encoder and no change to the recorder.

### Alarm in and out on one block

Two dry-contact inputs take detectors, two dry-contact outputs drive a siren or lamp. Audio in, audio out and speaker terminals sit on the same 18-position pluggable block.

### Cellular or wired route out

Four RJ45 ports, 2.4/5 GHz Wi-Fi in access point mode, and two 4G/5G modules with two SIM cards. The site link is chosen at installation.

## Specifications

| | |
|---|---|
| **Enclosure and power** | |
| · | Aluminium case, 235 x 160 x 53 mm, under 2 kg without antennas |
| · | Desktop, wall bracket or DIN rail mounting; 5 cm clear air on all sides |
| · | DC 12 V 3 A, centre positive; 5 W typical at full load, fanless |
| · | Operating temperature -20 to +60 C, storage -30 to +70 C, 10 to 90 % RH |
| **Processing and storage** | |
| · | Quad-core ARM Cortex-A53 with integrated NPU, 28.8 TOPS |
| · | 8 GB LPDDR4X, two 4 GB devices |
| · | 64 GB eMMC, plus one SATA port for a 2.5-inch drive |
| · | TF card slot, SIM slot pair and an SD card slot on the front panel |
| **Video and analysis** | |
| · | 16 channels at 1080P, H.264 and H.265 decode |
| · | Streams in over ONVIF, RTSP, RTMP and GB28181 |
| · | One HDMI 2.0 output, up to 3840x2160 at 30 Hz, for commissioning |
| · | Live view with detection boxes, zones and class labels; 1, 4, 9 and 16 screen layouts |
| **Network** | |
| · | Four RJ45: LAN1 1000 M, WLAN 1000 M, LAN2 100 M, LAN3 100 M |
| · | 2.4/5 GHz Wi-Fi with access point mode |
| · | Two 4G/5G modules, two SIM cards |
| **Control and audio** | |
| · | Two RS-485 ports, four UART, five I2C and one SPI on the terminal block |
| · | Two dry-contact alarm inputs, two dry-contact alarm outputs |
| · | MIC in, line in and line out on the block, plus speaker terminals |
| · | Two USB 3.0 and one USB 2.0 host ports |

## Interfaces

| Port | Qty | Connector | Typical use |
|---|---|---|---|
| **LAN1** | 1 | RJ45, 1000 M | Cameras 1 to 8 |
| **LAN2** | 1 | RJ45, 100 M | Cameras 9 to 16 |
| **LAN3** | 1 | RJ45, 100 M | Office network |
| **WLAN** | 1 | RJ45, 1000 M | Platform or site uplink |
| **HDMI** | 1 | HDMI 2.0 | Local monitor, commissioning |
| **USB 3.0** | 2 | USB-A | Keyboard, mouse or storage |
| **USB 2.0** | 1 | USB-A | Service |
| **RS-485** | 2 | Terminal block | PTZ control or sensor bus |
| **Alarm in** | 2 | Dry contact | Door contact, gas detector |
| **Alarm out** | 2 | Dry contact | Siren, lamp |
| **Audio** | 2 | Block, speaker terminals | Pickup in, line out |
| **DC 12 V** | 1 | DC jack | Supplied 3 A adapter |

## In the Box

Terminal: 1, aged and self-tested before packing

Power adapter: 1, 12 V 3 A with mains lead

Antennas: Two Wi-Fi and two cellular

Terminal block: Connectors for alarm input and output

Wall bracket: 1 with fixing screws

Quick start: 1, wiring and first power-on steps

## Installation Environment

Operating temperature: -20 C to 60 C

Operating humidity: 10% to 90%, non-condensing

Storage temperature: -30 C to 70 C

Clearance: 50 mm of clear air on all sides, fanless

Mounting: Desktop, wall bracket or DIN rail

## Ordering Information

| Model | Description |
|---|---|
| **QG-615AI67** | Edge AI terminal, 16 channels, 28.8 TOPS NPU, fanless aluminium case |

## Company Information

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