QG-6181U96 Datasheet

AI compute server, 22 analysis units, up to 352 channels

Overview

The QG-6181U96 is a rack appliance that holds up to 22 edge analysis units behind one management board and runs a browser platform that collects their records. Each unit decodes and analyses sixteen 1080P channels and keeps its own record base. A full build covers 352 channels at 1080P on one appliance. One operator sees the device tree, alarms and reports of every unit from one screen. Cameras connect as they are, in RTSP, RTMP or GB28181.

Key Features and Benefits

Twenty-two units, three hundred and fifty-two channels

A full build carries 22 analysis units of sixteen 1080P channels each. Units are added as the site grows, and the platform reads whatever is fitted.

Each unit addressed as a device

Every unit has its own address and its own record base. A unit is swapped by its label and slot number, and the platform keeps the rest of the bank running.

One platform over many units

The device tree lists units by slot number. Records, alarms and reports from every unit are read in one browser session from any workstation on the site network.

4U case, two supplies

One or two 600 W supplies, about 300 W at full load. Leave 1U free above the case for air. Units are fanless; case fans run continuously.

Wiring stays in place at service

The internal network between the management board and the unit bank is wired at the factory. Units slide forward on rails, so a swap does not disturb the cabling.

Specifications

Appliance	
·	Rack case, 4U; leave 1U free above for air
·	Slot bank numbered 0 to 21, units slide forward on rails
·	One or two 600 W supplies; about 300 W at full load
·	Management board and unit bank wired at the factory
Capacity	
·	22 analysis units per appliance
·	16 channels at 1080P per unit, set by model
·	Up to 352 channels per appliance at 1080P, H.264, 4 Mb/s per channel
·	About 1.4 Gb/s of switch load on the internal network at full load
Rear ports	
·	MGMT: browser access and platform push to the site network
·	CAM: internal network to the unit bank, wired as shipped
·	LAN1 to LAN4: optional camera feeds or a second site link
·	ALARM dry contact, HDMI for commissioning, PSU1 and PSU2 inlets
Platform	
·	Browser application on the management board, any current browser
·	Device tree lists every unit by slot number and state
·	Records, alarm handling and reports per unit or per site
·	Accounts and page access set per role

Interfaces

Port	Qty	Connector	Typical use
MGMT	1	RJ45	Browser access, platform push
CAM	1	RJ45	Internal network to unit bank
LAN1 to LAN4	4	RJ45	Camera feed or second site link
ALARM	1	Terminal block	Dry contact to siren or lamp
HDMI	1	HDMI	Local display, commissioning
PSU1, PSU2	2	IEC inlet	600 W each, dual supply
Unit slots	22	Rack slots	Analysis units 0 to 21

In the Box

Appliance: 1, aged and self-tested before packing

Power cord: 1 per supply inlet

Rack hardware: One pair of ears and fixing screws

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

Certificate: 1, printed with the serial number

Installation Environment

Operating temperature: 0 C to 40 C

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

Storage temperature: -20 C to 60 C

Clearance: 1U free above the case for air; case fans unobstructed

Grounding: Rack ground resistance 4 ohm or less, conductor 1.5 mm2 or larger

Ordering Information

Model	Description
QG-6181U96	AI compute server, rack appliance, 22 analysis units, up to 352 channels

Company Information

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