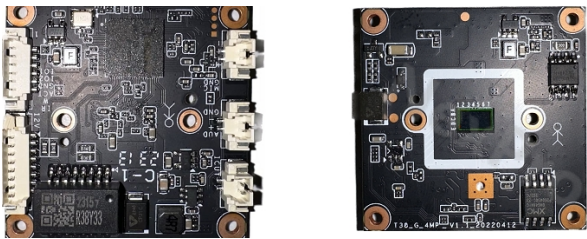


NexPro CORE-4MP-38

4MP IP Camera Core Module

Technical Specification Sheet



Compact 4MP Imaging Engine for Flexible Enclosure Integration

The NexPro CORE-4MP-38 is a 38×38mm single-board IP camera core module purpose-built for high-definition surveillance camera manufacturing and custom enclosure integration. Featuring a 4MP low-illumination CMOS sensor, integrated IR-CUT driver with synchronized light-sensitive LED control, and H.265+ triple-codec encoding, this module delivers crisp 2560×1440 video with ultra-low power consumption. Bundled with the free Seetong Client and Seetong APP for recording, preview, and playback — plus native mobile monitoring via Seetong Cloud — it forms the foundation of high-stability surveillance systems when paired with compatible embedded NVRs..



Flexible Network Topologies

Topology 1	IPC — NVR — Seetong Cloud — Seetong Client
Topology 2	IPC — NVR — Seetong Cloud — Seetong APP
Topology 3	IPC — NVR — Seetong Client
Topology 4	IPC — Seetong Client (Direct)
Topology 5	IPC — Seetong Cloud — Seetong APP

Core Module Highlights

4MP Full Moon Night	Ultra-Low Power	Universal Connectivity	H.265+
2560×1440 at 20fps, dual-stream H.265+/H.265/H.264 encoding.	≤1.5W typical consumption, ideal for compact and thermal-sensitive enclosures.	ONVIF compliant, HTTP/TCP/RTSP/P2P/GB28181, works across all major platforms.	Triple codec (H.265+/H.265/H.264), dual-stream with independent bitrate control

Technical Specifications

No.	Parameter	NexPro CORE-5MP-FMN38
1	System Architecture	Embedded Linux, single-core 32-bit DSP, pure hardware compression, watchdog timer, 8MB SPI-NOR Flash, 64MB DDR2
2	Image Sensor	4MP 1/3" CMOS; Color: 1.0 Lux @ F1.2 (AGC ON); B/W: 0 Lux (IR ON); Integrated IR-CUT driver with Sensor + IR-CUT + soft photosensitive + LED supplement synchronized control; True day/night switching
3	Video Processing	H.265+ / H.265 / H.264 encoding; Dual-stream capable, AVI container; Bitrate adjustable 500k–8000k bps; PAL & NTSC supported
4	Frame Rate	4MP @ 20fps
5	Image Output	Main Stream: 2560×1440 / 2304×1296 / 1920×1080 / 1280×960 / 1280×720; Sub Stream: D1 / 800×448 / 704×576 / 640×480 / 640×360 / 352×288
6	Audio Interface	1× audio input (supports microphone or line-in pickup); 1× audio output (supports 8Ω 2W speaker)
7	Audio Processing	G.711 codec; Bidirectional voice intercom; Audio-video synchronization
8	Network Interface	1× RJ45 10/100M adaptive Ethernet; Common-mode 6KV surge protection, differential-mode 1.5KV surge protection; Protocols: HTTP, TCP/IP, IPv4, DHCP, NTP, RTSP, ONVIF, P2P, PPTP, GB/T28181
9	Lamp Board Interface	1× PWM output control signals, supports 2 external LED drivers; PWM frequency: 24KHz
10	IR-CUT Interface	1× IR-CUT interface; Supported IR-CUT types: operating voltage 3.5–12V, internal resistance 20–45Ω; or operating voltage 3.5–6V, internal resistance 20Ω

No.	Parameter	NexPro CORE-5MP-FMN38
11	Additional Signal Interfaces	1× red/blue strobe interface; 1× external audio amplifier IO
12	Surge Protection	Power surge: 1.5KV throughput protection; Network surge: common mode 6KV, differential mode 1.5KV
13	Business Functions	Web-based configuration; On-Screen Display (OSD); Real-time video transmission; Motion detection alarm linkage with central alert and pop-up video; Seetong Client remote management software
14	Network Protocols	TCP/IP, IPv4, DHCP, RTSP, P2P, ONVIF, GB28181
15	Mobile Monitoring	iOS & Android support via Seetong Cloud
16	Power	DC 12V input; Power consumption: ≤1.5W
17	Dimensions & Weight	38 × 38 mm, single-board 38 form factor; Net weight: ~8.7g
18	Operating Environment	-20°C ~ +55°C (-4°F ~ +131°F)

Resolution Reference Guide

Effective Pixels	Typical Resolutions
5MP	2880×1620 (default)
4MP	2560×1440
3MP	2304×1296
2MP (1080P)	1920×1080