

Intelligent Network Video Recorder (NVR)

Production-ready design for global surveillance OEMs

Intelligent Network Video Recorder (iNVR) is a production-ready reference design developed by VVDN Technologies. It is based on the Intel® Celeron / Core Platform series and is equipped with 4 GB of DDR4 RAM (upgradeable up to 32 GB) to accommodate different workloads and modularity. Additionally, the NVR supports real-time display, high-quality video recording, and connectivity options, including Wi-Fi 6E and Bluetooth, for seamless data transfer over the cloud.

This solution is ideal for surveillance Original Equipment Manufacturers (OEMs) or System Integrators in search of an off-the-shelf NVR for various surveillance applications, such as Retail, Healthcare, Railways, Smart Cities, Transportation, and Traffic Management. The Intelligent NVR is capable of running AI-based video analytics, facial recognition, object detection, and other intelligent algorithms, allowing for more efficient and effective surveillance by reducing the dependency on manual monitoring.

Furthermore, the hardware of the Intelligent Network Video Recorder (iNVR), including SATA expansion and PoE capabilities, can be upgraded according to end customer requirements with a quick turnaround time



Highlights

- Based on Intel® Celeron / Core Platform
- Scalable Platform
- Modular Design
- Cyber Secure
- NDAA Compliant
- EDGE AI-enabled

Technical Specifications

Processor	
Platform	Intel® Core™ Processors / Intel® Celeron® Processors
Socket	LGA1700
CPU Name	Intel® Celeron® Processor 7305L / Intel® Core™ i3-1215UL / i5-1235UL / i7-1255UL
Memory	DDR4 4GB 512MX16 FBGA with speeds upto 3200MT/s (Upgradeable upto 32GB)

Interfaces	
I/O Interface – Front	<ul style="list-style-type: none"> - 1X USB3.1 Type A - Reset Button - Power Button - 2X LED Indicators
I/O Interface – Rear	<ul style="list-style-type: none"> - 1X 1GbE RJ45 - 1X 2.5GbE RJ45 - 1X HDMI port - 1X Type C (10Gbps support) (Display port support) - 1X Type A USB3.2 Gen1 (5Gbps support) - 16X LAN Ports - 1X 250V 10A AC power socket

Audio/video	
Audio Input	Audio Inband supported with IP camera
Audio Compression	MP3 , AAC
ONVIF Support	ONVIF Profiles S G and T
Recording Resolution	8MP/6MP/5MP /4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Video Encode/Decode	Celeron / i3 <ul style="list-style-type: none"> - Encode: 4K30 - Decode: 5 x 4K30
Video Compression	Support H.265/H.264
Video Input	16-Ch
Video Output	4K@60 HDMI and Type C (Display Port)
HDMI/VGA	1Ch HDMI, 1Ch Type-C to HDMI/ Type-C to DP

Network	
Connectivity	Wifi 6E + BT (M.2 Key E)
Network Interface	<ul style="list-style-type: none"> - 1 RJ45 10M/100M/1000M - 1 RJ45 10M/100M/1000M/2500M
Protocol	RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, NTP
PoE Interface	Yes
PoE Max Power	13W

Storage	
Storage	2x PCIe based SSD(M.2 Key M) 2x SATA Connector for HDD
Capacity	Upto 10TB for each HDD Upto 1TB for each SSD
Mounting Mode	Embedded

Certification and OS	
Certification	CE, FCC
Security	TPM 2.0*
Operating System	Ubuntu 22.04.2 LTS / Windows

General	
Power	150 Watts onboard SMPS
Dimensions (WxDxH)	483mm x 388mm x 48mm
Operating System	0°C to +50°C
Reset & Power Button	Yes
Chassis	1U
Weight	2 KG

Note : *TPM 2.0 Security on need basis depending on the security needs

Targeted Applications

- Security and Surveillance
- Retail
- Healthcare
- Transportation and Traffic Management
- Smart City

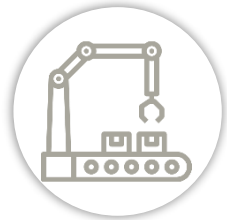
Our Offerings



Whitelabel



**Customization
as per the need**



**Mass
Manufacturing**

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