Ittiam Systems is a technology company that provides cutting-edge multimedia solutions for a wide range of embedded products and online video services. With its offerings spanning across media components, SDKs, applications, hardware platforms, turnkey systems and cloud based workflows, Ittiam provides solutions to Industrial (In-Flight Entertainment, Avionics, Surveillance, Enterprise, Medical), Defense, Broadcast, Consumer and Automotive Markets.

Ittiam’s Industrial & Defense Solutions leverage our strong multimedia expertise and enable customers to achieve the best product specifications & performance in a cost & time optimal manner.

Highlights
- **High Performance** (Low Latency, Low Power, High Channel Density, Robust operation over different wired / wireless networks)
- **Reliable Operation** (24x7, harsh operating and environmental conditions)
- **Field Proven** software and hardware IPs
- **Standards Compliant** product specifications, algorithms and protocols
- Product development and qualification as per **Quality Standards**
- **Proven track record of multiple turnkey engagements** across Surveillance, Defense & Broadcast applications

Key Technologies
- Ultra-Low Latency (ULL) Streaming
- Video Networking (Streaming & Recording Technologies)
- Adaptive Streaming
- Wi-Fi Streaming
- Content Security
Embedded Solutions

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Workflow Solutions

Solutions for multimedia workflows that may be deployed on public / private cloud infrastructure or on-premises computing servers.

Media SDKs - Software Development Kits

**Video Networking SDK (VN SDK)**
SDK for video networking (streaming and recording) applications
- **Server Configuration**: Live / File Encoding and Streaming
- **Recorder Configuration**: Live / Network Recording
- **Client / Player Configuration**: Decoding and Playback of Network / File Streams
- **Transcoder Configuration**: Network / File Transcoding
- **Hybrid Combinations of the above**

**Low Latency SDK (LL SDK)**
SDK for real-time interactive, latency critical applications
- **ULL Server Configuration**: Live Encoding and Streaming
- **ULL Client Configuration**: Decoding and Playback of Network Streams

**Highlights**
- Off the shelf on multiple platforms
- Extensive configurability
- Options for custom platforms and extended set of features

**Ultra Low Latency Server and Client on DM816x: <50 msec glass to glass**
- Based on LL SDK, end-to-end latency optimization across device drivers, media compression, other media processing and streaming functions
- Available off the shelf on neonCaster Gen II (NPM) and TIs DM816x EVM
- Playback of streams with Player/Client App on Android and iOS
Off The Shelf Hardware Platforms

**neonCaster Gen I**
- TI DM816x and C6678 based high-performance hardware platform

**neonCaster Gen II – NPM**
- TI DM816x based compact, high-performance processor module

**neonCaster Gen II - Clove**
- TI Sitara / Jacinto based compact, low-power processor module

**neonCaster Gen III – TBA**
- For H.265 (HEVC) and 4K video processing

**neonCaster I/O Boards (Nova) for NPM / Clove**

**HD A/V Encode/Decode Cards**
- TI DM6467 based

**PCle High-Bit Rate A/V Encoding Card**
- TI DM6467T based PCI Express card

**openGear A/V Encoding Card**
- TI DM816x based multi-channel HD/SD encoding card

Custom Hardware Solutions
Reference Hardware Designs and Board Support Packages (BSP) licensing options.

Turnkey Solutions
Offerings ranging from concept to product realization and support involving:
- System design
- Software & hardware design & development
  - Delivered with the suitable configuration of VN SDK / LL SDK
  - Includes BSP
  - Includes customizations to address specific use cases
- Product compliance
- Volume manufacturing
Customers

- Over 30 customers across the world
- More than a decade of relationships with Tier 1 / Tier 2 ODMs / OEMs globally
- Repeat wins for multiple generations of products in various market segments

The Ittiam Advantage

Reuse of pre-existing IPs to reduce
- Product realization timelines
- Time-to-market
- Overall program cost

Flexible licensing, delivery options

Field-proven, robust solutions for
- Ensuring predictable program timelines and cost
- Quick deployment
- Ensured product quality, performance

Well established support
- Warranty
- Annual Maintenance Contract
- Source Code Escrow

Memberships / Alliances

For more information, visit [www.ittiam.com](http://www.ittiam.com) or contact Ittiam Sales

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