Due to the tremendous parallel processing demand of network appliances, a majority of revenue is actually in integrated logic and coprocessing solutions for the processor complex. Tapping this is critical for growth.

Kelson Astley
Senior Research Analyst
Processors for Network Infrastructure

Key Questions Addressed

- Who are the leading suppliers of network infrastructure processors?
- What is the market size and forecast for various types of processors and coprocessors?
- How is increasing bandwidth driving a processor evolution without major increases in network equipment Capex?
- What is NFV and how is it affecting processors in network infrastructure?
- What are uCPE appliances and why are they important?
- How will media consumption, the Internet of Things and 5G traffic cause network appliances to evolve?
- How are emerging channels such as Cloud and Enterprise comparing to the Service Provider Markets?
- Will the network of the future include artificial intelligence?
Semiconductor Components: Our Expert Analysts

Noman Akhtar
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Jawad Tariq
Research Analyst
Omdia leverages our robust coverage of the semiconductor market with the recognized industry leading Enterprise Division Research understanding of communications equipment to bring you unprecedented coverage of high-performance processors in network infrastructure.

**Frequency**
- 5-year annual forecast (2020 – 2024)
- Base historic years (2016 – 2019)

**Measurements**
- Revenues, Units, ASP and Growth Rates
- Supplier Market Shares (H1)

**Global**
- Global coverage

**Details**
- Processor Suppliers
- Core Architecture Ecosystem Shares
- Network processor suppliers
- Foundry services
- IP providers
- Network operating system vendors
- Network software developers
- Related component suppliers: memory, transceiver, etc.
- IoT, edge and other network solutions specialists
- Network appliance and server OEMs
- Network security specialists

**Coverage**

- **Processors Classes**
  - Microprocessor (MPU)
  - MPU General Purpose 32 vs. 64-bit
  - MPU Network Specific 32 vs. 64-bit
  - Logic Processor & Application-specific core (ASIC/ASSP) & Network Processing Units (NPU) (no accessible core)
  - AP by ASSP, ASIC, & NPU
  - AP by 32 vs. 64-bit
  - System-on-chip (SoC) & Field Programmable Gate Array (FPGA)
  - SoC 32/64-bit
  - FPGA Soft Core vs. No Core
  - General Purpose Graphics Processing Units (GPU)
  - Machine Learning/Deep Learning Processor (ML/DL)
  - Microcontroller (MCU)
  - MCU by 32 vs. 64-bit

- **Application Markets**
  - Routers (3 classes)
  - Switches (3 classes)
  - Network Security (6 classes)
  - Optical Transport
  - Wired Access (7 classes)
  - Wireless Access (8 classes)
  - Wireless Service Core (7 classes)
  - Wireless Backhaul
  - Other Network Appliances (3 classes)

- **Shares Covered**
  - Processor Supplier Leaders
  - Core Architecture Ecosystem Shares
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- Rev, Units & ASP

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- Rev, Growth & Share
- Rev, Units & ASP

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  - Rev, Growth & Share
  - Rev, Units & ASP
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  - Rev, Units & ASP
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  - Rev, Units & ASP

Supplier Market Share
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Processor Market Qualitative Highlights
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  - Switch Market
  - Optical Transport Market
  - Wired Access Market

The Processors for Network Infrastructure Market Tracker Report is presented in presentation layout style with qualitative highlights of the data presented in the associated database. It includes graphs and key topical discussions of each market dynamic.
About Omdia’s Semiconductor Components Research

Omdia’s leading semiconductor components research is provided by a highly experienced team of analysts. Many are industry veterans with deep technical background as well as hands-on market and product experience in their coverage area. The key component areas of processors and microcontrollers, MEMS and sensors, power discretes and modules, power ICs, LED and optical components are covered across numerous device categories and applications.

Their expertise is augmented and supported by the wide array of end equipment application and demand reporting, semiconductor manufacturing tracking and forecasting and spotlight services such as the semiconductor competitive landscape tool, the application market forecast tracker, the China semiconductor intelligence service and others.
## SERVICE AREA PACKAGE

### Memory & Storage
- DRAM Memory Intelligence Service
- Mobile & Embedded Memory Intelligence Service
- NAND Memory Intelligence Service
- SSD & HDD Storage Memory Intelligence Service

### Semiconductor Components
- Key Mobile Component Price Intelligence Service
- LED Intelligence Service
- Magnetic Sensors Report - 2019
- MEMS & Sensors for Consumer & Mobile Intelligence Service
- MEMS & Sensors Intelligence Service
- Microcontroller Market Tracker
- Optoelectronic Components Report - 2020
- Power Semiconductor Intelligence Service
- Processors for Graphics & Artificial Intelligence Market Tracker
- Processors for Network Infrastructure Market Tracker
- Processors Spotlight Service
- System-on-Chip (SoC) Market Tracker

### Semiconductor Manufacturing
- Global Semiconductor Manufacturing Market Tracker
- Pure Play Foundry Market Tracker
- Semiconductor Silicon Demand Forecast Tool

### Semiconductor Market
- China Semiconductor Intelligence Service
- Design Activity Tool
- Industrial Semiconductor Intelligence Service
- OEM Semiconductor Spend Tracker
- OEM Semiconductor Spending & Design Activity Intelligence Service
- Semiconductor Application Forecast AMFT Spotlight Service
- Semiconductor Competitive Landscape CLT Spotlight Service
- Semiconductor Forecast Scenario Tool
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Customer Success Manager

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Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today’s constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

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