Avago
TECHNOLOGIES

Enabling **Your Imagination**
# with **Our Innovation** for over 50 years

Your Imagination, Our Innovation

Your Imagination. Our Innovation.

Avago Technologies (Nasdaq: AVGO) is a leading designer, developer and global supplier of a broad range of analog semiconductor devices with a focus on compound III-V semiconductor-based products. We differentiate ourselves through our high-performance design and integration capabilities. Our product portfolio is extensive and includes thousands of products in four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial and other. Applications for our products in these target markets include smart phones, data networking and telecommunications equipment, data center storage and servers, power generation and renewable energy systems, and factory automation.

Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard and Bell Labs roots. Over the years, we have assembled a team of highly skilled design and product engineers and developed an extensive portfolio of intellectual property.
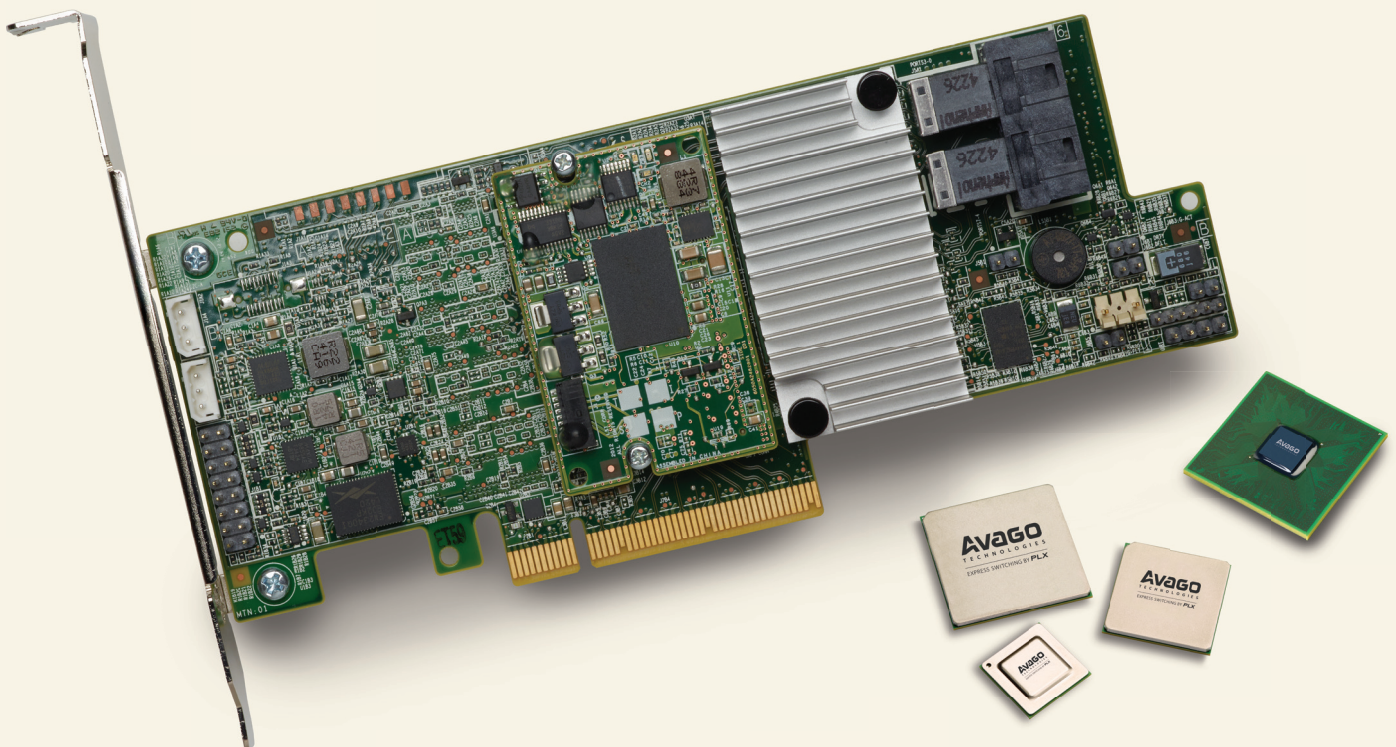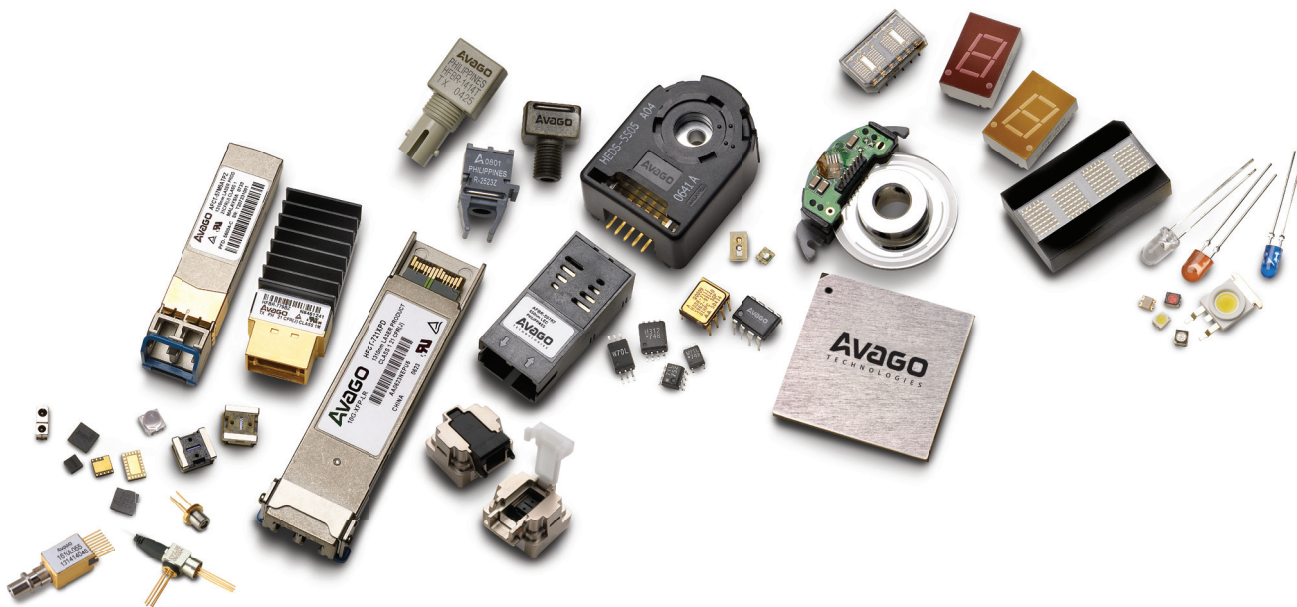
Wireless Communications serving the smartphone/handset and base station infrastructure markets with leading-edge products that include:

- FBAR: Filters, Duplexers, and Multiplexers
- Amplifiers: PA, LNA, and VGA
- Front End Modules (FEM)
- mmW MMICs
- RF Discrete Components

Wired Infrastructure for switches/routers, enterprise networking, computing and storage/server applications with products that include:

- High Speed SerDes ASICs
- Ethernet 1G/10G/40G/100G Transceivers
- Fibre Channel 1G/2G/4G/8G/16G Transceivers
- High Speed Interconnects: MiniPOD™, MicroPOD™, CXP AOC
- BTS CPRI/ONSAI Transceivers
- Optical Components: TO Cans, TOSA/ROSA, iCRx

Enterprise Storage for the data center and enterprise markets with server storage products that include:

- HDD Read Channel SoC
- HDD Pre-Amp
- RAID & SAS/SATA I/O Controllers
- SAS Expanders
- PCIe & SAS Switches

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter systems, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Optocouplers
- Optical Sensors
- Motion Encoders
- Industrial Fiber Solutions
- LED Display & Signage Solutions

Avago has a long history of **Innovative Technologies** enabling **Your Imagination**

1960's
- Developed GaAsP LEDs

1990's
- Optical mouse sensor
- Introduced the world's brightest LED

2000
- Industry's first 3.3V optocouplers

2003
- Industry's first single-chip hard disk drive and DVD recorder processor
- Smallest RF front-end module for global mobile band handsets
- First miniature reflective analog optical encoder
- One-millionth SAS RAID-on-Chip IC shipped

2004
- First multi-channel/ bi-directional optocoupler
- Industry's first single-chip 3Gb/s Serial Attached SCSI (SAS) controller IC

2006
- One-millionth fiber optic transceiver shipped
- First to demonstrate SAS switch

2007
- First demonstration of 100 Gb ethernet parallel optics

2008
- Industry's smallest field effect transistors (FETs)
- First 10 Gbps ethernet SFP short reach transceivers

2009
- First GPS front-end modules with FBAR pre-filter and low noise amplifier (LNA)
- Unveiled advanced embedded optical engine technology to enable high-speed connectivity
- First Bluetooth® 2.1 System on Chip (SoC) LaserStream™ sensor
- World's brightest 5mm through-hole round LED

2010
- High-speed interconnect for the world's fastest computer
- First to demonstrate 25Gb SerDes @ 40 nm
- World's first surface mount electronic sign LEDs
- Trendsetting optical finger navigation for handsets
- First combined ambient light and proximity sensors
- First 16 gigabit fibre channel transceiver for storage networking
- Industry's first PCI Express 3.0 switches

2011
- First transceiver for 150MBit/s optical MOST150 for automotive infotainment
- First to demonstrate 30 Gbps SerDes in 28 nm
- Shipped first Minipod™ devices
- Demonstration of industry's first 12Gb/s SAS expander

2012
- Industry's first precision optical isolation amplifiers optimized for voltage sensing
- Industry's first 28 nm 25 Gbps long reach compliant ASIC SerDes for networking equipment

2013
- Industry's first 12Gb/s SAS RAID-on-Chip, I/O controllers and host bus adapters

2014
- Industry's first automatic grade photovoltaic MOSFET driver
- Shipped over 500,000 QSFP+ MMF optical transceivers
- Industry's smallest 3-channnel reflective optical encoder

2015
- Industry's first 56 Gbps PAM4 SerDes

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