

# Fairchild Semiconductor Product Catalog

Rev. 1

**Analog & Mixed Signal**

**Discrete Power**

**Interface & Logic**

**Microcontrollers**

**Optoelectronics**

**RF Power**

PDF.Support

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## Company Information

Fairchild Semiconductor is the leading global supplier of high performance products that optimize power. Our power semiconductor solutions address the world's growing power requirements driven by an increased demand for higher performance and more efficient electronics. We offer the broadest portfolio of products that reduce power consumption while enabling longer battery life and reduced size and weight.

Fairchild is The Power Franchise®, supplying power semiconductors to the consumer, industrial, ultra-portable, communications, and automotive market segments. Fairchild provides the Global Power Resource™— a complete power design source that includes Power Systems Laboratories located worldwide, technical expertise, and online resources that address designers' specific application needs.

**Analog & Mixed Signal** products include Power Management, Analog Signal Processing and Data Conversion ICs. Fairchild is driving continued innovation and portfolio expansion in product areas ranging from Off-Line Switchers, DC/DC converters, PFC and PWM controllers, Battery Management, Data Converters (A/D and D/A) and Video ICs to LDOs, System management & Supervision, LCD back light drive ICs, Electronic ballast ICs, Motor ICs and Amplifiers. Fairchild also offers Microcontrollers and Application Specific Standard Products (ASSP).

Fairchild's **Discrete Power** portfolio is one of the industry's broadest, and includes leading edge SuperFET™, UltraFET®, PowerTrench® and QFET® MOSFETs, Bipolar Transistors, IGBTs, Schottky, Ultrafast, HyperFast and Stealth™ Diode, and SPM™ (Smart Power Module). Fairchild's extensive discrete packaging includes advanced small package solutions with the advantages of superior size, low package height, and excellent thermal and electrical performance.

**Interface & Logic** products include LVDS, GTLP, Universal Serial Bus, DIMM and 1284 standard products. Interface & Logic is also comprised of logic level translator products, TinyLogic® products, low voltage products, analog switches, bus switches and standard logic products. Fairchild's packaging solutions range from space saving MicroPak™ and DQFN packaging, to high pin count QVSOP and BGA packaging.

**Optoelectronic** products include optocouplers, Solid State Relays, LED lamps and displays, and infrared components. Fairchild's portfolio of industry standard and application specific devices features a variety of advanced solutions including a full-color spectrum of low power and high brightness SMD LEDs, infrared variable sensing, mini-flat packages, surface-mount LEDs and infrared, Solid State Relays and isolated error amplifiers. A complete set of safety approval certifications are available for optocoupler products.

**RF** products provides RF power amplifier solutions for wireless communication systems like Wi-Fi™, CDMA and WCDMA cellular handsets. RF packaging solutions include advanced small package options with a small footprint, low package profile and superior thermal and electrical performance.

Fairchild employs 9,000 people worldwide and is headquartered in South Portland, Maine. Additional U.S. design and manufacturing facilities are located in California, Pennsylvania, Colorado and Utah with manufacturing, assembly and test sites in Malaysia, Singapore, the Philippines, China and South Korea.

## The Power Franchise®

<b>Power</b>				
<b>AC/DC Conversion</b>	<b>Battery Management</b>	<b>DC/DC Conversion</b>	<b>Monitoring/Supervisory</b>	<b>Other Power Applications</b>
Battery Charger Support	Microcontrollers	DC Boost Converters	Microcontrollers	Ballast Controllers
Diodes	Battery Chargers	DC/DC Conversion ICs	Supervisory Circuits	Ground Fault Interrupt
Fairchild Power Switches	Diodes	Diodes	Temperature Sensors	IGBTs
IGBTs	MOSFETs	Linear Regulators	Voltage Detectors	MOSFETs
MOSFETs	Optically Isolated Error Amplifiers	MOSFETs		Motor Drivers/Controllers
Optically Isolated Error Amplifiers	Optocouplers	Optically Isolated Error Amplifiers		Multiplexer/Register for Microprocessor VID
Optocouplers	Rectifiers	Optocouplers		Solid State Relays
PFC/PWM Combinations	Temperature Sensors	Rectifiers		Supervisory ICs
Power Factor Correction				Transistors
PWM and Phase Modulation Controllers				TRIAC Optocouplers
Rectifiers				
Voltage References				

<b>Input</b>	
<b>Analog Input and Processing</b>	
ADCs	Timers
Amplifiers	Video Processors
Analog Switches	Voltage References
Comparators	Voltage to Frequency Converters
Multipliers	
Optocouplers	
<b>Interface</b>	
1284 Transceivers	LVDS
Advanced Logic	Memory Module Drivers
Bus Switches	Optocouplers
GTL	USB Transceivers
Low Voltage Logic	
<b>Optical</b>	
Infrared Products	Solid State Relays

<b>Processors</b>
Microcontroller

<b>Logic</b>
Bus Switches
Low Voltage Logic
Standard Logic
TinyLogic®

<b>Output</b>	
<b>Analog</b>	
Amplifiers	Encoders
Analog Switches	Optocouplers
Comparators	Power Amplifiers
DACs	Video Filters/Drivers
<b>Interface</b>	
1284 Transceivers	LVDS
Advanced Logic	Memory Module Drivers
Bus Switches	Optocouplers
GTL	USB Transceivers
Low Voltage Logic	
<b>Optical</b>	
Infrared Products	LED Lamps
LED Displays	Solid State Relays
LED Drivers	
<b>RF</b>	
Power Amplifiers	

<b>Support</b>		
<b>Discrete</b>	<b>Sensing</b>	<b>Feedback &amp; Control</b>
Diodes	Infrared Products	Infrared Products
JFETs	Optocouplers	Optocouplers
MOSFETs	Temperature Sensors	Solid State Relays
Rectifiers		
Transistors		

## Fairchild Semiconductor's Product Tree

### Analog & Mixed Signal

#### Analog Signal Processing

- Amplifiers
- Comparators
- Power Amplifiers
- Voltage to Frequency Converters

#### Application Specific ICs

- Ballast ICs
- CCFL Backlight ICs
- Ground Fault Interrupt ICs
- Motor ICs
- Multiplexer/Register for Microprocessor VID

#### Data Conversion

- Analog to Digital Converters (ADCs)
- Digital to Analog Converters (DACs)

#### Interface and Switches

- DIMM
- GTL
- IEEE1284
- LVDS
- USB
- Switches

#### Power Management

- LED Drivers
- Linear Regulators
- AC/DC Conversion ICs
- DC/DC Conversion ICs
- PWM and Phase Modulation Controllers (AC/DC and DC/DC)
- Supervisory Circuits
- Voltage References and Shunts

#### Special Function ICs

- Landing Correction ICs
- Vertical Output ICs
- Voltage Stabilizers

#### Thermal Management

- Temperature Sensors

#### Timing Circuits

- Temperature Sensors

#### Video ICs

- Analog Filters and Buffers
- Decoder and Genlocks
- Digital Video Filters and Mixers
- Digital Video Memories
- Digital Video Processors
- Encoders
- Video Demo Boards

### Discrete Power

#### Bipolar Power Transistors & JFETs

#### Diodes & Rectifiers

#### IGBTs

- Discrete IGBT
- Ignition IGBT
- IGBT Modules
- SPM™ (Smart Power Module)

#### MOSFETs

- Load Switches
- Power MOSFETs
- MOSFET/Schottky Combos

#### TRIACs

### Interface & Logic

#### Interface

- DIMM
- GTL
- IEEE1284
- LVDS
- USB

#### Logic

- Low Voltage Logic
- Standard Logic
- TinyLogic®

#### Switches

- Analog Switches
- Bus Switches

### Microcontrollers

### Optoelectronics

#### Infrared Products

#### LED Lamps & Displays

#### Optocouplers

#### Solid State Relays

### RF Power

#### Basestation

#### Cellular Handsets

#### Millimeter Wave/Wideband

#### Wireless LAN

Fairchild Semiconductor's Design Center offers a wide range of design tools including online selection and simulation tools, software downloads, and developer kits. Details can be found below. The web site for this information is <http://www.fairchildsemi.com/designcenter/>

## Design Tools

### FETBench

[http://www.transim.com/fairchild/fairchild\\_index.html](http://www.transim.com/fairchild/fairchild_index.html)  
(Registration required)

MOSFET design workbench featuring WebSIM™ and other resources for the design engineer

### Power Factor Correction (PFC) Toolkit

<http://www.fairchildsemi.com/designcenter/pfc>  
(Registration required)

This online toolkit contains tutorials, topology recommendations, product selection tools as well as other design recommendations for PFC applications.

### Power Supply Design Toolkit

<http://www.fairchildsemi.com/designcenter/acdc>  
(Registration required)

This online tool features tutorials, selection tools, and design aids specifically addressing AC/DC designs. Included is a step by step design tool using Fairchild Power Switches (FPS™).

### Synchronous buck MOSFET loss calculations with Excel Model (.pdf)

<http://www.fairchildsemi.com/designcenter/>

## Developer Tools

### ACEx™ Developer Tool Kit

[http://www.fairchildsemi.com/products/micro/acex\\_dtk.html](http://www.fairchildsemi.com/products/micro/acex_dtk.html)

## Models and Simulation Tools

<http://www.fairchildsemi.com/models>

Fairchild provides a full range of simulation resources including SPICE and IBIS models, as well as simulation tools.

## Sample Code

### ACEx™ sample code downloads

[http://www.fairchildsemi.com/products/micro/sw/sample\\_code.html](http://www.fairchildsemi.com/products/micro/sw/sample_code.html)

Download code to assist in your designs with ACEx™

## Training & Seminars

### Archived webcasts

<http://www.fairchildsemi.com/power/pwrsemwebcast03.html>

Contents:

- Flyback Converters – Fairchild Power Switch (FPS™)
- Practical aspects of feedback control
- Power Factor Correction
- DC-DC Solutions (Control)
- High-Voltage Discrete Technology
- DC-DC Solutions (MOSFETs)
- Motor Solutions

## Quality System

The success of Fairchild is dependent upon the level of service that we can provide to our customers. One of the ways that we provide this high level of service is through a comprehensive quality system. Fairchild's Quality Strategy stresses four key areas:

- Designing In Quality
- Building In Quality
- Customer Service
- Continuous Improvement

This quality system bolsters Fairchild's strategic initiatives of product innovation, cost-effective manufacturing and superior customer service.

Fairchild has a strong focus on *Supplier Quality*. Quality systems and programs are in place for all Fairchild suppliers worldwide including direct raw materials, fabrication, assembly and test subcontractors. These include a comprehensive rating system, controlled supplier lists, documented qualification procedures and environmental standards specifications.

Fairchild is committed to *Development Quality*. Development processes are based on the QS9000 Advanced Product Quality Planning (APQP) methodology. APQP is a concurrent engineering process that examines the processes, products and technologies to assure the end products work optimally. These developmental processes include a phase review system wherein at each point in the process, there is an opportunity to decide whether to continue or discontinue development as appropriate. Integral to the APQP methodology is the use of Failure Mode and Effects Analysis (FMEA) to examine the various ways that product, process or equipment failures can occur and develop control plans to proactively prevent the failures.

Fairchild's *Manufacturing Quality* systems are founded on the principles of Built-In Quality. Quality is an integral part of every step in the manufacturing process, starting with the development process itself. Fairchild's Manufacturing and Engineering groups make extensive use of statistical methods such as Design of Experiments to determine optimal process parameters and Statistic Process Control (SPC) to monitor the process performance. Continuous Improvement efforts use information available from sources such as customers, process control monitors, reliability testing and final test operations to generate action plans that will push the factories ever closer to quality perfection.

*Service Quality* is not just an afterthought at Fairchild. It is a major part of our quality system. An integral part of Fairchild's Service Quality is the Customer Quality Engineering (CQE) group, which is a global organization of engineers dedicated to addressing all process, product or service quality issues that customers may have. CQE also acts as the customer advocate within Fairchild and is available to support customers with qualification information, surveys, questionnaires and other inquiries. Additional service support is available through a new virtual organization of customer quality champions who are trained and certified to provide direct customer support from each of Fairchild's manufacturing sites. Fairchild's service quality includes fully equipped failure analysis labs at all manufacturing locations to test customer returned samples.

### The Future

All of Fairchild's manufacturing sites are in the process of enhancing their quality systems to meet the requirements of the TS-16949 standard. Quality systems based on this standard have a very strong link to the associated business processes. Another part of our future direction is an active focus on environmental quality. With the billions of parts that semiconductor manufacturers ship, it is imperative that these products do not contaminate the environment. Fairchild is contributing to this effort through compliance to industry standards such ISO-14001, conversion to lead-free plating, elimination of hazardous or restricted substances in our products and minimization of waste from our manufacturing processes.

We will continue to improve our processes, products and services to provide customers with design solutions that offer a true competitive advantage. This drive for continuous improvement is ingrained in our culture and a key to the future success of Fairchild Semiconductor and our customers.

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