

global device programming services



CAPABILITIES

ONE ORDER | ONE DELIVERY | ONE INVOICE | ONE CONTACT

Fast, Reliable Programming Your Way, from a Name You Trust

Arrow Electronics has been a worldwide leader in programmable device services for over 25 years. That's because our team is dedicated to providing high-quality service, competitive pricing, and reliable, on-time delivery of programming solutions in both small and large quantities.



Arrow: The Right Choice

Our state-of-the-art facilities support the programming of more than 25,000 device types and products from more than 180 suppliers. In addition, our global network of programming centers provides the highest levels of quality available through global standardized systems, procedures, and automated equipment. Regardless of the size and sophistication of your requirements, Arrow has the infrastructure and experience to meet your programming services needs. We offer a wide range of services and the ability to seamlessly transfer programming to any region of the world.

We program customer-owned and Arrow-supplied parts in small- and medium-sized lots every day on a network that has the capacity to program more than 250 million units per year.

Arrow's strategically located and electronically networked programming centers are ISO 9001:2008 certified and comply with the Electrostatic Discharge (ESD) JESD 625 standard. Our facilities are also ISO/TS 16949 compliant. Our tape and reel facilities follow the EIA-481, EIA-468, and EIA-296 standards.

Fast First Article Service

Arrow understands your need to get products to market quickly. In most cases*, we ship First Article orders within 24 hours of receiving code and parts. Simply send your firmware via ftp, email, disk, or master device and we'll contact you about your specific request.

Take Advantage of an Integrated Supply Chain

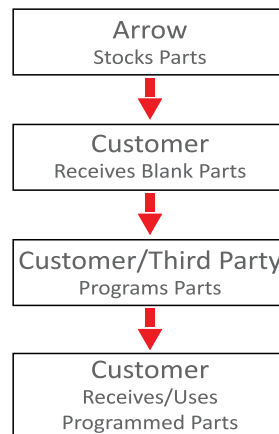
When you're dealing with inventory, you know that time is money. You can keep more of it in your pocket by deferring the point at which you take inventory ownership of your programmable parts by ordering both parts and programming services from Arrow.

Reducing the number of vendors involved in delivering your final, programmed devices will reduce your total lead time, simplify your workload, and reduce the number of days that the inventory is on your books.

*Does not apply to First Article orders requiring serialization, which will ship within 2 business days after receipt of required parts and instructions.

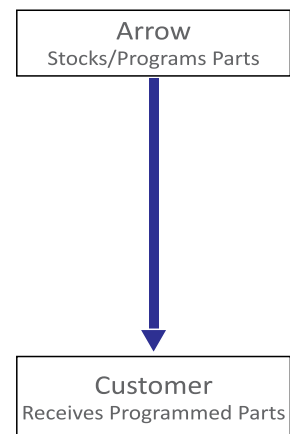
Save Time and Money with Arrow Device Programming Services

In-House/Third Party Programming



- + 7 Days of Inventory
- + Fall-Out Costs
- + Order Management Costs
- + Material Handling Costs
- + Capital Equipment and Other Costs

Arrow Programming



- No Extra Days of Inventory
- No Fall-Out Costs
- No Extra Order Management Costs
- No Extra Material Handling Costs
- No Equipment or Tooling Investment
- No Fixed Staff Costs
- No Supply Costs



Greater Flexibility

Because Arrow holds raw components in stock, we're able to respond quickly to last-minute changes in order size. We only ship known good and programmable parts so you experience zero fallout.

Unwavering Quality

At our Global Programming Centers, we have established rigorous processes that ensure your order is completed to your satisfaction, and our sophisticated redundant systems and state-of-the-art equipment ensure reliability.



State-of-the-art 19-site programming platform

As pin counts and chip densities rise, lead alignment and co-planarity become increasingly important for fast turnaround and absolute quality. Arrow's investment in both integrated and standalone vision inspection systems ensure that the production process upholds the proper mechanical integrity and device orientation.

Once you approve the First Article device or its chipless equivalent (by signing a First Article waiver), Arrow's leading-edge programming master data management systems handle the rest. With a barcode swipe of the job card by the operator, the programming server communicates your encrypted program file and customized instructions to configure the programming machinery with your unique requirements anywhere in the world. This ensures that your specific requirements are satisfied reliably, time after time.



Arrow Invests in Cutting-Edge Technology, so You Don't Have To

Our ongoing commitment to delivering quality programming services is highlighted by continual investments in the most advanced equipment offered by the world's leading manufacturers. Working jointly with our equipment partners in proprietary co-development, we continually update our Global Centers to enable the industry's highest processing speeds and quality levels.

Tape and Reeling

Arrow provides reliable, fast, and flexible tape and reeling services that support a wide range of devices including surface mount, radial, and axial components. Tape and reel services are offered as a complement to our programming services or on a stand-alone basis.

3D and 2D inspection capabilities for lead integrity, part orientation, and mark verification are standard throughout our network. (Pin 1 orientation and mark verification inspections are standard on all orders.)

Please contact us today to learn how we can reduce your total costs, simplify your supply chain, and improve your IC programming/tape and reel cycle time.

**Existing Arrow Customers:
1.800.777.2776**

**New Customers:
1.800.833.3557**

**Or, visit us at
arrownac.com/deviceprogramming**

Arrow's full range of programming services includes:

- IC programming
- Custom marking (laser/ink)
- IC testing
- Tape and reeling
- Serialization
- Mechanical/electrical screening, including 3D vision inspection
- Lead inspection and reconditioning
- AC/DC/vector testing
- Baking
- Carrier extraction
- Electrical erasing and reworking
- Marking eradication
- Custom barcoding and packaging
- Lead forming, trimming, and tinning
- Kitting
- Supply continuation on EOL parts

Arrow can support all programmable package types of the following devices:

- PLDs
- CPLDs
- EPROMs
- EEPROMs
- Traditional and NAND Flash
- Compact Flash cards
- FPGAs
- Microprocessors
- Microcontrollers
- Programmable clocks
- PROMs
- Oscillators



Arrow's Global Programming Network

Arrow's centralized programming centers maximize efficiencies while delivering consistent levels of service and quality. Facilities are fully networked and encrypted for security, offering you the ability to transition your business seamlessly around the world.

Arrow's strategically located and electronically networked programming centers are all ISO9001:2008 certified.

Please contact us today to learn how we can reduce your total costs, simplify your supply chain, and improve your IC programming/tape and reel cycle time.

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