

Product Catalog

2013 - Q2

06 . 25 . 2013

Product Categories:

ODM Services	3
Accessories	4
Adapters	4
Antennas	5
Breakout Boards	6
Cables	7
Misc	8
Programmeters/Debuggers	8
Prototyping Boards	9
OEM Devices	11
Microcontrollers	11
Navigation	12
Storage Media	13



All our products are designed and manufactured in the USA in an **ISO9001** certified facility and comply with the latest IPC Class 2 and RoHs standards.

Product datasheets and related software are available online at www.saikosystems.com

Ordering Information / Requesting a Quote

All prices indicated in this catalog are single quantity retail prices. If you would like to make a large quantity or wholesale purchase, please request a quote by visiting us online or sending a Request for Quote to sales@saikosystems.com

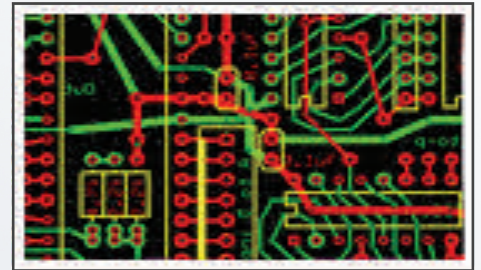
All products are shipped using OEM Packaging. Retail Packaging with UPC/EAN numbers are available upon special request for wholesale orders.

Purchase Orders and Requests for Quotes should be submitted to sales@saikosystems.com

ODM Services

Original Design Manufacturing Services

Can't find exactly what you need for your specific application?
Have a specific or customized hardware project in mind? No problem!



Saiko Systems provides low level customization on standard products and complete Original Design Manufacturing (ODM) turn-key services to suit your needs. We can help you design, manufacture, and test your product or system component!

Our turn-key service means we do all the hard work for you including purchasing of components.

Our prior experience includes, but not limited to:

- Industrial control and automation
- Microcontrollers / Microprocessors
- M2M Communication
- ZigBee (IEEE 802.15)
- Embedded WiFi (IEEE 802.11)
- Embedded Ethernet (IEEE 802.3)
- Accelerometers and sensors
- USB devices
- Flash controller devices
- Global Positioning Systems (GPS)
- Embedded Graphics
- Embedded User Interfaces
- Resistive and capacitive touch screens
- LCD controllers

To inquire about our ODM Service, please complete the form located at:

<https://www.saikosystems.com/web/odm.aspx>

Accessories > Adapters

SD to MicroSD Converter



The SD to MicroSD Converter is an accessory board designed to convert a standard Secure Digital (SD) Memory Card form factor into a Micro-Secure Digital (Micro-SD) form factor.

The board allows any item using the SD form factor (such as SD Memory Cards, SD Wireless cards, etc.) to be connected to devices containing a Micro-SD Slot.

A standard 0.1" pitch, 9-pin header can be soldered to J2, allowing developers access to the SDIO signals for easy SDIO application prototyping over a Micro-SD Slot.

Part Number	Single Quantity Price
ST-SD-uSD	\$17

Accessories > Antennas

GPS Bulkhead Antenna



3.3V GPS Bulkhead Antenna.

** This antenna includes PN: CA-TNC.MCX-3 (TNC to MCX 3ft conversion cable) which is required for this antenna to work with Saiko Systems GPS products.

Part Number	Single Quantity Price
ANT-GPS-BH	\$56

GPS Compact Embedded Antenna



3.3V GPS Compact Embedded Antenna with MCX Connector. 85mm (3.35in) long.

Part Number	Single Quantity Price
ANT-GPS-EM	Request Quote

GPS Magnetic Mount Antenna

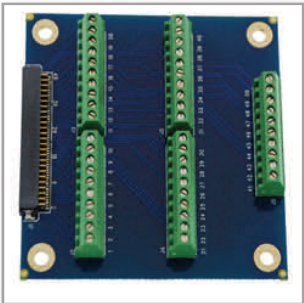


3.3V GPS Magnetic Mount Antenna with MCX Connector. 5m (16.4ft) long.

Part Number	Single Quantity Price
ANT-GPS-EM	\$15

Accessories > Breakout Boards

Micro-header Breakout Board



The BRK-DRM-XX is an accessory breakout board designed for Saiko Systems modules which house double-row micro-pitch headers. Featuring standard screw terminals, the breakout board allows designers to quickly and easily interface signals from any module.

The breakout board can be connected directly to right-angle connectors or to straight connectors via a ribbon cable (sold separately).

Part Number	Configuration	Single Quantity Price
BRK-DRM-50	50-Pin	Request Quote
BRK-DRM-40	40-Pin	Request Quote
BRK-DRM-30	30-Pin	Request Quote
BRK-DRM-20	20-Pin	Request Quote
BRK-DRM-10	10-Pin	Request Quote

Accessories > Cables

Part Number	Description	Single Quantity Price
CA-DML-20-XX	20-Pin Dual-Row Locking IO Cable (XX= Length in Inches)	Request Quote
CA-DB9-NULL-6	DB9 Null Modem Cable (6ft)	\$4.50
CA-ETN.RJ45-X	CAT5e Ethernet Cable with RJ45 plugs (X= Length in Feet)	Request Quote
CA-ICSP	ICSP cable for use with ICD3 Programmer with Microchip MCUs	Request Quote
CA-DMR-XX	Micro-header Ribbon Cable for use with BRK-DRM-XX (XX= Pin count 10, 20, 30, 40, or 50)	Request Quote
CA-RS232-D-M	20-Pin Micro-Header to dual DB9 connectors For use with modules with Dual RS232 Ports	Request Quote
CA-RS232-S-M	20-Pin Micro-Header to single DB9 connector For use with modules with single RS232 Port	Request Quote
CA-TNC.MCX-X	TNC(M) to MCX (M) converter cable (X= length in Feet)	Request Quote
CA-USB-AM-MICBM	USB Type A Male to Type Micro B Male Cable, 3ft	\$4

Accessories > Misc

Part Number	Description	Single Quantity Price
HW-STDOFF-KIT	Standoff Kit. Four 4-40 x 5/8" Aluminum HEX Stand-off, nuts, and screws	\$4

Accessories > Programmers/Debuggers

Part Number	Description	Single Quantity Price
PRG-ICD3	ICD3 Programmer / Debugger for Michrochip based MCU boards ** Requires converter cable CA-ICSP **	Request Quote

Accessories > Prototyping Boards

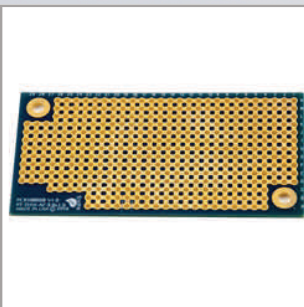
Breadboard Style Prototyping Board



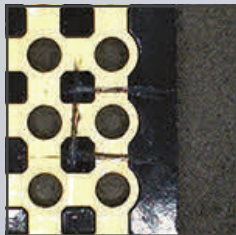
The Breadboard style prototyping boards are a robust solution designed to allow quick and easy circuit prototyping. The boards offer 0.08" round pads with 0.047" plated holes spaced 0.1" apart. Pads are connected together in rows and power rail columns are available similar to traditional solder-less breadboards.

Part Number	Board Size	Tie Points	Mounting Holes	Single Quantity Price
PT-BB-AP-3.0x1.7	3.0" x 1.7"	360	2	\$8
PT-BB-AP-4.0x2.0	4.0" x 2.0"	568	2	Request Quote
PT-BB-AP-5.0x2.5	5.0" x 2.5"	902	4	Request Quote
PT-BB-AP-6.0x3.0	6.0" x 3.0"	1281	4	Request Quote
PT-BB-AP-7.0x3.5	7.0" x 3.5"	1826	6	Request Quote
PT-BB-AP-8.0x4.0	8.0" x 4.0"	2491	6	Request Quote
PT-BB-AP-9.0x4.5	9.0" x 4.5"	3236	8	Request Quote

Cut-Trace Prototyping Board

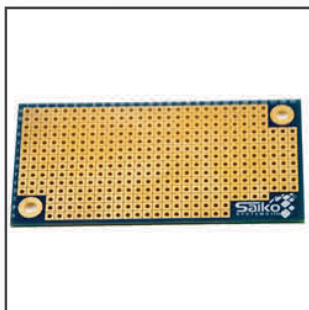


The Cut-Trace style prototyping boards are a robust solution designed to allow quick and easy circuit prototyping. The boards offer 0.08" round pads with 0.047" plated holes spaced 0.1" apart. All Pads are connected together which allows a clean finished result by eliminating wires and solder paths. After soldering your components, simply cut traces using a sharp blade (X-acto Knife) to form your desired circuit.



Part Number	Board Size	Tie Points	Mounting Holes	Single Quantity Price
PT-THW-AP-2.0x1.0	2.0" x 1.0"	143	2	Request Quote
PT-THW-AP-3.0x1.5	3.0" x 1.5"	371	2	\$8
PT-THW-AP-4.0x2.0	4.0" x 2.0"	706	2	Request Quote
PT-THW-AP-5.0x2.5	5.0" x 2.5"	1123	4	Request Quote
PT-THW-AP-6.0x3.0	6.0" x 3.0"	1658	4	Request Quote
PT-THW-AP-7.0x3.5	7.0" x 3.5"	2275	6	Request Quote
PT-THW-AP-8.0x4.0	8.0" x 4.0"	3010	6	Request Quote
PT-THW-AP-9.0x4.5	9.0" x 4.5"	3815	8	Request Quote

Square Pad Prototyping Board

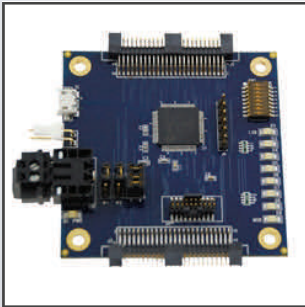


The Square Pad series prototyping boards are a robust solution designed to allow quick and easy circuit prototyping. Square pads on both sides spaced 4MILS apart with center holes spaced at 0.1" allow for easy solder bridging of pads to create traces, eliminating wires. The close spacing also allows placement of both through-hole and some surface mount parts on a single proto-board. 1.2mm holes allow usage of parts with wider pins. The boards are available with both plated or non-plated holes. Non-plated holes allow different circuits on opposite sides of the PCB.

Part Number	Board Size	Tie Points	Hole Plating	Mounting Holes	Single Quantity Price
PT-SQ-A-2.0x1.0	2.0" x 1.0"	143	Non-plated	2	Request Quote
PT-SQ-A-3.0x1.5	3.0" x 1.5"	371	Non-plated	2	\$8
PT-SQ-A-4.0x2.0	4.0" x 2.0"	706	Non-plated	2	Request Quote
PT-SQ-A-5.0x2.5	5.0" x 2.5"	1123	Non-plated	4	Request Quote
PT-SQ-A-6.0x3.0	6.0" x 3.0"	1658	Non-plated	4	Request Quote
PT-SQ-A-7.0x3.5	7.0" x 3.5"	2275	Non-plated	6	Request Quote
PT-SQ-A-8.0x4.0	8.0" x 4.0"	3010	Non-plated	6	Request Quote
PT-SQ-A-9.0x4.5	9.0" x 4.5"	3815	Non-plated	8	Request Quote
PT-SQ-AP-2.0x1.0	2.0" x 1.0"	143	Plated	2	Request Quote
PT-SQ-AP-3.0x1.5	3.0" x 1.5"	371	Plated	2	\$8
PT-SQ-AP-4.0x2.0	4.0" x 2.0"	706	Plated	2	Request Quote
PT-SQ-AP-5.0x2.5	5.0" x 2.5"	1123	Plated	4	Request Quote
PT-SQ-AP-6.0x3.0	6.0" x 3.0"	1658	Plated	4	Request Quote
PT-SQ-AP-7.0x3.5	7.0" x 3.5"	2275	Plated	6	Request Quote
PT-SQ-AP-8.0x4.0	8.0" x 4.0"	3010	Plated	6	Request Quote
PT-SQ-AP-9.0x4.5	9.0" x 4.5"	3815	Plated	8	Request Quote

OEM Devices > Microcontrollers

PIC24 Industrial MCU Module

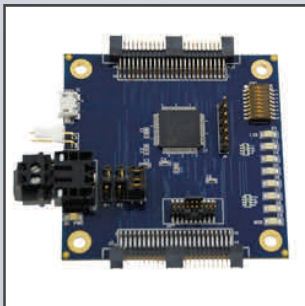


The PIC24 Industrial MCU is a mid-range 16-bit microcontroller board designed for low power applications which require a reliable, moderate-performance MCU.

Powered by Microchip's PIC24F microcontroller, the module offers designers a host of features including a 10-bit ADC @ 500ksps, Digital I/O, UART, RS232, I2C, SPI, Timers/Counters, 8 general purpose LEDs, 8 general purpose toggle switches, USB 2.0 Full Speed (functional as a Host or Client), and much more. The modified Harvard Architecture also features a single-cycle hardware Multiplier and Hardware Divider. Furthermore, the module can be configured to receive power through the USB connector or an external system power source via a terminal block.

Part Number	Description	Single Quantity Price
MCUPIC24-USB	PIC24 Industrial MCU Module Only	Request Quote
MCUPIC24-USB-CS	Cable Set	Request Quote
MCUPIC24-USB-DK	Development Kit (Includes module and cable set, programmer)	Request Quote

PIC32 Industrial MCU Module



The PIC32 Industrial MCU is a 32-bit microcontroller board ideal for low power applications which require a reliable, high-performance MCU.

Powered by Microchip's PIC32MX microcontroller, the module offers designers a host of features including a 10-bit ADC @ 1000ksps, Digital I/O, UART, RS232, I2C, SPI, Timers / Counters, 8 general purpose LEDs, 8 general purpose toggle switches, USB 2.0 Full Speed (functional as a Host or Client), and much more. The M4K 5-stage pipeline architecture also features a prefetch cache module to speed execution from flash, and a single-cycle multiply and high-performance divide module. Furthermore, the module can be configured to receive power through the USB connector or an external system power source via a terminal block.

Part Number	Description	Single Quantity Price
MCUPIC32-USB	PIC32 Industrial MCU Module Only	Request Quote
MCUPIC32-USB-CS	Cable Set	Request Quote
MCUPIC32-USB-DK	Development Kit (Includes module and cable set, programmer)	Request Quote

OEM Devices > Navigation

Embedded GPS Module



Powered by the 12-Channel Trimble Copernicus II receiver, the Embedded GPS Module features extremely fast startup times and high performance in foliage canopy and urban canyon environments. The GPS receiver can autonomously acquire satellite signals and quickly generate reliable time and position fixes in extremely challenging environments and under poor signal conditions.

OEMs can choose between USB, RS232, or UART to interface the module with their system.

Part Number	Description	Single Quantity Price
WI-GPS-00	GPS Module Only	\$86
WI-GPS-01	GPS Module /w Magnetic Mount Antenna	\$101
WI-GPS-02	GPS Module /w Embedded Antenna	Request Quote
WI-GPS-03	GPS Module /w Bulkhead Antenna	\$142
WI-GPS-CS	Cable Set	\$27.50
WI-GPS-DK	Development Kit (Includes module, antenna, cable set)	\$128.50

Embedded GPS + Dead Reckoning (DR) Module



The Embedded GPS + DR Module combines dead reckoning (DR) and GPS to produce accurate and instantaneous positions even under the most difficult conditions. Powered by the Trimble Aardvark receiver, the module features instantaneous and accurate performance in deep urban canyons and dense forests. Dead reckoning (DR) is used to estimate position based on heading, distance traveled, and the last known position. Direction and Tachometer inputs allow the module to integrate with the vehicle systems. Furthermore, the tri-axial gyro allows the module to be mounted in any orientation, simplifying the installation and calibration process normally required for a DR system.

OEMs can choose between USB, RS232, or UART to interface the module with their system.

Part Number	Description	Single Quantity Price
WI-GPSDR-00	GPS + DR Module Only	\$150
WI-GPSDR-01	GPS + DR Module /w Magnetic Mount Antenna	\$165
WI-GPSDR-02	GPS + DR Module /w Embedded Antenna	Request Quote
WI-GPSDR-03	GPS + DR Module /w Bulkhead Antenna	\$206
WI-GPSDR-CS	Cable Set	\$37.50
WI-GPSDR-DK	Development Kit (Includes module, antenna, cable set)	\$202.50

OEM Devices > Storage Media

Embedded Removable Storage Module

PICTURE
UNAVAILABLE

Powered by the SMSC USB2250i Flash Media Controller, the module is designed for rugged applications and harsh environments. Independent card interfaces allow up to four different types of Flash Media Cards to be used simultaneously, including the latest high-performance throughput formats such as CF-UDMA and MS Pro-HG allowing transfer rates >35MB/s. Secure memory format support within the controller also allows software security keys to be stored in a media card as a hardware lock for select software.

Supported Media:

SD/MMC. MS/MS Pro/MS Pro-HG, CF/CF-UDMA, xD

Part Number	Single Quantity Price
ST-COMBO-001	Request Quote



WWW.SAIKOSYSTEMS.COM

560 W Main St. STE. C#273
Alhambra, CA 91801 USA

+1-877-99-SAIKO



COPYRIGHT 2013
ALL RIGHTS RESERVED