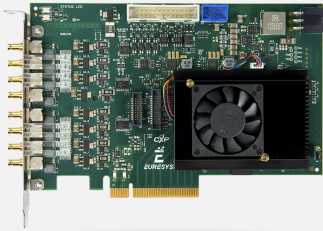




Coaxlink Octo

PCIe 3.0 eight-connection CoaXPRESS frame grabber



At a Glance

- Eight CoaXPRESS CXP-6 connections: 5,000 MB/s camera bandwidth
- Connect up to eight CoaXPRESS cameras to one card
- PCIe 3.0 (Gen 3) x8 bus: 6,700 MB/s bus bandwidth
- Feature-rich set of 10 digital I/O lines
- Extensive camera control functions
- Memento Event Logging Tool

Benefits

PCIe 3.0 (Gen 3) x8 bus

- 7,800 MB/s peak bus bandwidth
- 6,700 MB/s sustained bus bandwidth

Acquire images from the fastest and highest resolution cameras

- Highest data acquisition rate in the industry
- 50 Gbit/s (5,000 MB/s) bandwidth from camera to host PC memory

Long cable support for Coaxlink CXP-6

- 40 meters at CXP-6 speed (6.25 Gbps)
- 100 meters at CXP-3 speed (3 Gbps)

Use standard coaxial cables

- A single inexpensive cable for data transfer, camera control, trigger and power supply
- Top reliability and flexibility, performs in the harshest environments

Robust connectors for reliable connections

- Coaxlink CXP-6 uses DIN 1.0/2.3 connectors with push/pull latching system

Connect up to 8 cameras to a single Coaxlink card

Coaxlink Octo also supports a 16-connection cameras connected to two cards.

Memento Event Logging Tool

- Memento is an advanced development and debugging tool available for Coaxlink cards.
- Memento records an accurate log of all the events related to the camera, the frame grabber and its driver as well as the application.

- It provides the developer with a precise timeline of time-stamped events, along with context information and logic analyzer view.
- It provides valuable assistance during application development and debugging, as well as during machine operation.

CustomLogic Design

- CustomLogic is an FPGA design kit enabling the design and upload of FPGA code to a Coaxlink board
- It is compatible with the Coaxlink Octo and Coaxlink Quad CXP-12 for which up to 70% of their Xilinx Kintex Ultrascale XCKU035 FPGA resources are available.
- The design phase uses the Xilinx Vivado development tools (not provided)
- Using CustomLogic does not require any additional hardware

Direct GPU transfer

- Sample programs for AMD DirectGMA and NVIDIA (CUDA) available.
- Direct GPU transfer eliminates unnecessary system memory copies, lowers CPU overhead, and reduces latency, resulting in significant performance improvements in data transfer times for applications.
- Direct capture of image data to GPU memory is available using AMD's DirectGMA. Compatible with AMD FirePro W5x00 and above and all AMD FirePro S series products.

General purpose I/O lines

- Compatible with a wide range of sensors and motion encoders.
- High-speed differential inputs: Quadrature motion encoder support up to 5 MHz.
- Isolated current-sense inputs: 5V, 12V, 24V signaling voltages accepted, up to 50 kHz, individual galvanic isolation up to 250VDC and 170VAC RMS.
- Isolated contact outputs.
- High-speed 5V-compliant TTL inputs/ LVTTTL outputs.

High-performance DMA (Direct Memory Access)

- Direct transfer into user-allocated memory and hardware boards that expose PCI addresses
- Hardware scatter-gather support
- 64-bit addressing capability

Area-scan triggering capabilities

- A trigger is used to start the acquisition when the part is in position. Hardware triggers come from the Coaxlink's I/O lines. Software triggers come from the application.
- An optional trigger delay is available to postpone the acquisition for a programmable time.
- A trigger decimation function allows to skip some of the triggers.
- Camera exposure control allows the application to control the exposure time of the camera.
- When the acquisition starts, at the appropriate timing, the Coaxlink board generates a signal to control an illumination device connected to one of its output lines.

Line-scan triggering capabilities 1/2

Coaxlink supports continuous web scanning (to inspect infinite, continuously moving surfaces without losing a single line) and discrete object scanning (to acquire the image of objects moving in front of the camera).

- A trigger is used to start the acquisition when the part is in position. Hardware triggers come from the board's I/O lines. Software triggers come from the application.
- After it is started, the acquisition either:
 - Continues indefinitely (for web inspection applications)
 - Continues for a programmable number of lines (to acquire the image of objects of a known length)
 - Continues until an end trigger is received (to acquire the image of objects of a variable length)
- An optional trigger delay is available to postpone the beginning of the acquisition for a programmable number of lines.

Line-scan triggering capabilities 2/2

- The Coaxlink frame grabber controls the camera scanning rate based on the signals received from a motion encoder. When the parts move faster, the acquisition line rate of the camera increases. When the parts move slower, the acquisition line rate of the camera decreases.
- The Coaxlink boards interpret A/B signals from quadrature motion encoders to know in which direction (forward or backward) the part is moving.
- Optionally, the Coaxlink board can be instructed to acquire lines only when the object is moving forward or only when the object is moving backward.
- A feature called Backward Motion Cancellation stops the acquisition when a backward motion is detected. The line acquisition automatically resumes when the motion is again in the forward direction, at the exact place where the acquisition was interrupted.
- A Rate Converter allows the camera to acquire lines at any programmable resolution lower or higher than the resolution of the motion encoder. This gives the designer incredible freedom and flexibility during the development of the application.
- A Rate Divider allows the camera to acquire lines at a resolution lower than the resolution of the motion encoder. It divides the frequency of the incoming encoder signal by a programmable integer.

Flexible line-scan camera operation with the rate converter.

- The rate converter is a smart, programmable frequency multiplier/divider.
- Used with motion encoders and line-scan cameras, it allows the user to choose the aspect ratio of the pixels in the image.
- It provides a way to calibrate the acquisition chain to easily reach square (1:1 aspect ratio) pixels.

The Coaxlink driver includes the following tools:

- Genicam Browser: An application giving access to the Genicam features exposed by the GenTL Producer(s) in the system.
- GenTL Console: A command-line tool giving access to the functions and commands exposed by the Euresys GenTL Producer.

Compliant with Genicam Including support for

- GenApi
- The Standard Feature Naming Convention (SFNC)
- GenTL

Windows, Linux and macOS drivers available

- Including support for Intel 32-bit and 64-bit platforms as well as ARM 64-bit platforms

Applications

Machine Vision for the Electronic Manufacturing Industry

- High speed image acquisition for AOI, 3D SPI, 3D lead/ball inspection machines.
- Very high resolution line-scan image acquisition for Flat Panel Display inspection and solar cell inspection

Machine Vision for the General Manufacturing Industries

- High frame rate image acquisition for inspection machines
- Line-scan image acquisition for surface inspection machines
- Line-scan image acquisition for textile inspection
- Image acquisition for robots

Machine Vision for the Printing Industry

- High speed line-scan image acquisition for printing inspection machines

Video Acquisition and Recording

- High-frame-rate video acquisition for motion analysis and recording

Video Monitoring, Surveillance & Security

- Transmission and acquisition of high-definition video over long coaxial cables for traffic surveillance, monitoring and control

Specifications

Mechanical

| | |
|----------------|--|
| Format | Standard profile, half length, 8-lane PCI Express card |
| Cooling method | Air cooling, fan-cooled heatsink |
| Mounting | For insertion in a standard height, 8-lane or higher, PCI Express card slot |
| Connectors | <ul style="list-style-type: none">• 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H' on bracket:<ul style="list-style-type: none">– 8x DIN 1.0/2.3 female connectors– CoaXPress host interface• 'INTERNAL I/O' on PCB:<ul style="list-style-type: none">– 26-pin 2-row 0.1" pitch pin header with shrouding– I/O lines and power output• 'I/O EXTENSION' on PCB:<ul style="list-style-type: none">– 26-pin 2-row 0.05" pitch pin header with shrouding– I/O extension lines and power output• 'AUXILIARY POWER INPUT' on PCB:<ul style="list-style-type: none">– 6-pin PEG power socket– 12 VDC power input for PoCXP camera(s) and I/O power• 'C2C-LINK' on PCB:<ul style="list-style-type: none">– 6-pin 2-row 0.1-in header– Card to card link |
| LED indicators | <ul style="list-style-type: none">• 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H' on bracket:<ul style="list-style-type: none">– Bi-color red/green LEDs– CoaXPress Host connector indicator• 'FPGA STATUS LAMP' on PCB:<ul style="list-style-type: none">– Bi-color red/green LED– FPGA status indicator• 'BOARD STATUS LAMP' on PCB:<ul style="list-style-type: none">– Bi-color red/green LED– Board status indicator |
| Switches | 'RECOVERY' on card PCB: <ul style="list-style-type: none">• 3-pin 1-row 0.1" header• Firmware emergency recovery |
| Dimensions | L 167.65 mm x H 111.15 mm L 6.6 in x H 4.38 in |
| Weight | 189 g, 6.67 oz |

Host bus

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|-------------------------|--|
| Standard | PCI Express 3.0 |
| Link width | <ul style="list-style-type: none">• 8 lanes• 1 lane, 2 lanes or 4 lanes with reduced performance |
| Link speed | <ul style="list-style-type: none">• 8.0 GT/s (PCIe 3.0)• 5.0 GT/s (PCIe 2.0) with reduced performance |
| Maximum payload size | 512 bytes |
| DMA | 32- and 64-bit |
| Peak delivery bandwidth | 7,800 MB/s |

| | |
|--|---|
| Effective (sustained) delivery bandwidth | 6,700 MB/s (Host PC motherboard dependent) |
| Power consumption | Typ. 16 W (4.2 W @ +3.3V, 11.8 W @ +12V), excluding camera and I/O power output |

Camera / video inputs

| | |
|--|---|
| Interface standard(s) | CoaXPress 1.0, 1.1 and 1.1.1 |
| Connectors | Eight DIN1.0/2.3 75 Ohms CXP-6 |
| Status LEDs | One CoaXPress Host connection status LED per connector |
| Number of cameras | <ul style="list-style-type: none"> • Area-scan cameras: <ul style="list-style-type: none"> – One 1- or 2- or 4- or 8-connection camera – One or two 1- or 2- or 4-connection cameras – Up to four 1- or 2-connection cameras – One 1- or 2- or 4-connection camera and up to four 1-connection cameras – Up to eight 1-connection cameras • Line-scan cameras: <ul style="list-style-type: none"> – One 1- or 2- or 4- or 8-connection camera – One or two 1- or 2- or 4-connection cameras – Up to four 1- or 2-connection cameras |
| Maximum aggregated camera data transfer rate | 50 Gbit/s (5,000 MB/s) |
| Supported CXP down-connection speeds | 1.25 GT/s (CXP-1), 2.5 GT/s (CXP-2), 3.125 GT/s (CXP-3), 5 GT/s (CXP-5), and 6.25 GT/s (CXP-6) |
| Number of CXP data streams (per camera) | 1 data stream per camera |
| Maximum CXP stream packet size | 16,384 bytes |
| PoCXP (Power over CoaXPress) | <ul style="list-style-type: none"> • PoCXP Safe Power: <ul style="list-style-type: none"> – 17 W of 24V DC regulated power per CoaXPress connector – PoCXP Device detection and automatic power-on – Overload and short-circuit protections • On-board 12V to 24V DC/DC converter • A +12V power source must be connected to the AUXILIARY POWER INPUT connector using a 6-pin PEG cable |
| Camera types | <ul style="list-style-type: none"> • Area-scan cameras: <ul style="list-style-type: none"> – Gray-scale and color (YCbCr, YUV, RGB and Bayer CFA) – Single-tap (1X-1Y) progressive-scan • Line-scan cameras and contact imaging sensors: <ul style="list-style-type: none"> – Gray-scale and color RGB |
| Camera pixel formats supported | Raw, Monochrome, Bayer, RGB, and RGBA (PFNC names): <ul style="list-style-type: none"> • Raw • Mono8, Mono10, Mono12, Mono14, Mono16 • BayerXX8, BayerXX10, BayerXX12, BayerXX14, BayerXX16 where XX = GR, RG, GB, or BG • RGB8, RGB10, RGB12, RGB14, RGB16 • RGBA8, RGBA10, RGBA12, RGBA14, RGBA16 • YCbCr601_422_8, YCbCr601_422_10 • YCbCr709_422_8, YCbCr709_422_10 • YUV422_8, YUV422_10 |

Area-scan camera control

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|---------|---|
| Trigger | <ul style="list-style-type: none">• Precise control of asynchronous reset cameras, with exposure control.• Support of camera exposure/readout overlap.• Support of external hardware trigger, with optional delay and trigger decimation. |
| Strobe | <ul style="list-style-type: none">• Accurate control of the strobe position for strobed light sources.• Support of early and late strobe pulses. |

Line-scan camera control

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|-------------------|---|
| Scan/page trigger | <ul style="list-style-type: none">• Precise control of start-of-scan and end-of-scan triggers.• Support of external hardware trigger, with optional delay.• Support of infinite acquisition, without missing line, for web inspection applications. |
| Line trigger | <ul style="list-style-type: none">• Support for quadrature motion encoders, with programmable noise filters, selection of acquisition direction and backward motion compensation.• Rate Converter tool for fine control of the pixel aspect ratio: Rate Conversion Ratio in the range 0.001 to 1000 with an accuracy better than 0.1%.• Rate Divider tool |
| Line strobe | <ul style="list-style-type: none">• Accurate control of the strobe position for strobed light sources. |

On-board processing

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|-------------------------------|---|
| On-board memory | 2 GB |
| Image data stream processing | <ul style="list-style-type: none">• Unpacking of 10-/12-/14-bit to 16-bit with selectable justification to LSb or MSb• Optional swap of R and B components• Little endian conversion |
| Flat-field correction | Only available with the '2-camera' firmware variant |
| Input LUT (Lookup Table) | Only available for monochrome cameras: <ul style="list-style-type: none">• 8 to 8 bits• 10 to 8, 10 or 16 bits• 12 to 8, 12 or 16 bits |
| Bayer CFA to RGB decoder | <ul style="list-style-type: none">• '1-camera' firmware variant:<ul style="list-style-type: none">– 3x3 linear interpolation method– 3x3 median-based interpolation method– 5x5 gradient-based interpolation method• '2-camera' firmware variant:<ul style="list-style-type: none">– 3x3 linear interpolation method– 3x3 median-based interpolation method |
| CustomLogic firmware variants | <ul style="list-style-type: none">• 1-camera, customlogic firmware variant<ul style="list-style-type: none">– one 1- or 2- or 4-connection area-scan camera– 91% DSP, 84% FF, 75% LUT and 62% BRAM resources of the Xilinx Kintex Ultrascale XCKU035 FPGA available for user programming– 2GB capacity, 12GB/s bandwidth, shared on-board DRAM memory |
| Data stream statistics | <ul style="list-style-type: none">• Measurement of:<ul style="list-style-type: none">– Frame rate (Area-scan only)– Line rate– Data rate• Configurable averaging interval |

Event signaling and counting

- The application software can be notified of the occurrence of various events:
 - Standard event: the EVENT_NEW_BUFFER event notifies the application of newly filled buffers
 - A large set of custom events
- Custom events sources:
 - I/O Toolbox events
 - Camera and Illumination control events
 - CoaXPress data stream events
 - CoaXPress host interface events
- Each custom event is associated with a 32-bit counter that counts the number of occurrences
- The last three 32-bit context data words of the event context data can be configured with event-specific context data:
 - Event-specific data
 - State of all System I/O lines sampled at the event occurrence time
 - Value of any event counter

General Purpose Inputs and Outputs

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|---------------------------|---|
| Number of lines | <p>10 I/O lines on INTERNAL I/O connector:</p> <ul style="list-style-type: none">• 2 differential inputs (DIN)• 2 singled-ended TTL inputs/outputs (TTLIO)• 4 isolated inputs (IIN)• 2 isolated outputs (IOUT) <p>NOTE: The number of I/O lines can be extended using I/O modules attached to the I/O EXTENSION connector.</p> |
| Usage | <ul style="list-style-type: none">• Any I/O input lines can be used by any LIN tool of the I/O Toolbox• Selected pairs of I/O input lines can be used by any QDC tool of the I/O toolbox to decode A/B signals of a motion encoder• The LIN and QDC tools outputs can be further processed by the other tools (DIV, MDV, DEL) of the I/O toolbox to generate any of the following "trigger" events:<ul style="list-style-type: none">– The "cycle trigger" of the Camera and Illumination controller– The "cycle sequence trigger" of the Camera and Illumination controller– The "start-of-scan trigger" of the Acquisition Controller (line-scan only)– The "end-of-scan trigger" of the Acquisition Controller (line-scan only) |
| Electrical specifications | <ul style="list-style-type: none">• DIN: High-speed differential inputs compatible with ANSI/EIA/TIA-422/485 differential line drivers and complementary TTL drivers• TTLIO: High-speed 5V-compliant TTL inputs or LVTTTL outputs, compatible with totem-pole LVTTTL, TTL, 5V CMOS drivers or LVTTTL, TTL, 3V CMOS receivers• IIN: Isolated current-sense inputs with wide voltage input range up to 30V, compatible with totem-pole LVTTTL, TTL, 5V CMOS drivers, RS-422 differential line drivers, potential free contacts, solid-state relays and opto-couplers• IOUT: Isolated contact outputs compatible with 30V / 100mA loads |
| Filter control | <ul style="list-style-type: none">• Glitch removal filter available on all System I/O input lines• Configurable filter time constants:<ul style="list-style-type: none">– for DIN and TTLIO lines: 50 ns, 100 ns, 200 ns, 500 ns, 1 μs– for IIN lines: 500 ns, 1 μs, 2 μs, 5 μs, 10 μs |
| Polarity control | Yes |

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|-------------------------|--|
| Power output | <ul style="list-style-type: none"> • From AUXILIARY POWER connector to INTERNAL I/O and I/O EXTENSION connectors: <ul style="list-style-type: none"> – Non-isolated +12V, 1A, with electronic fuse protection • From PCI Express connector to I/O EXTENSION connector: <ul style="list-style-type: none"> – Non-isolated, +3.3V, unprotected |
| I/O Toolbox tools | <p>The I/O Toolbox is a configurable interconnection of tools that generates events (usually triggers) from input lines. The composition of the toolset is product- and firmware-dependent.</p> <ul style="list-style-type: none"> • Line Input tool (LIN): Edge detector delivering events on rising or falling edges of any selected input line. • Quadrature Decoder tool (QDC): A composite tool including: <ul style="list-style-type: none"> – A quadrature edge detector delivering events on selected transitions of selected pairs of input lines. – An optional backward motion compensator for clean line-scan image acquisition when the motion is unstable. – A 32-bit up/down counter for delivering a position value. • Divider tool (DIV): to generate an event every nth input events from any I/O toolbox event source. • Multiplier/divider tool (MDV): to generate m events every d input events from any I/O toolbox event source. • Delay tool (DEL): to delay up to 16 events from one or two I/O toolbox event sources, by a programmable time or number of motion encoder ticks (any QDC events). • User Actions Scheduler tool (UAS): to delegate the execution of User Actions at a scheduled time or encoder position. Possible user actions include setting low/high/toggle any bit of the User Output Register or generation of any User Events. |
| I/O Toolbox composition | <p>Determined by the selected firmware variant:</p> <ul style="list-style-type: none"> • 1-camera: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 1-camera, line-scan: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 2-camera: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 2-camera, line-scan: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 4-camera: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 4-camera, line-scan: 8 LIN, 4 QDC, 4 DIV, 4 MDV, 4 DEL, 1 UAS • 5-camera: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS • 8-camera: 8 LIN, 1 QDC, 1 DIV, 1 MDV, 2 DEL, 1 UAS |

C2C-Link

| | |
|-------------|--|
| Description | <ul style="list-style-type: none"> • Accurate synchronization of the trigger and the start-of-exposure of multiple grabber-controlled area-scan cameras. • Accurate synchronization of the start-of-cycle, start-of-scan and end-of-scan of multiple grabber-controlled line-scan cameras. |
|-------------|--|

Specification

- C2C-Link synchronizes cameras connected to:
 - the same card
 - to different cards in the same PC (requires an accessory cable such as the "3303 C2C-Link Ribbon Cable" or a custom-made C2C-Link cable)
 - to different cards in different PCs (requires one "1636 InterPC C2C-Link Adapter" for each PC and one RJ 45 CAT 5 STP straight LAN cable for each adapter but the last one)
- Maximum distance:
 - 60 cm inside a PC
 - 1200 m cumulated adapter to adapter cable length
- Maximum trigger rate:
 - 2.5 MHz for configurations using a single PC, or up to 10 PCs and 100 m total C2C-Link cable length
 - 200 kHz for configurations up to 32 PCs and 1200m total C2C-Link cable length
- Trigger propagation delay from master to slave devices:
 - Less than 10 ns for cameras on the same card or on different Coaxlink cards in the same PC
 - Less than 265 ns for cameras on different cards in different PCs (3 PCs and 40m total C2C-Link cable length)

Software

Host PC Operating System

- Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures
- Linux for x86 (32-bit), x86-64 (64-bit) and aarch64 (64-bit) processor architectures
- macOS for x86-64 (64-bit) processor architecture

Refer to release notes for details

APIs

EGrabber class, with C++ and .NET APIs:

- .NET assembly designed to be used with development environments compatible with .NET frameworks version 4.0 or higher

GenICam GenTL producer libraries compatible with C/C++ compilers:

- x86 dynamic library designed to be used with ISO-compliant C/C++ compilers for the development of x86 applications
- x86_64 dynamic library designed to be used with ISO-compliant C/C++ compilers for the development of x86_64 applications
- aarch64 dynamic library designed to be used with ISO-compliant C/C++ compilers for the development of aarch64 applications

Environmental conditions

Operating ambient air temperature 0 to +55 °C / +32 to +131 °F

Operating ambient air humidity 10 to 90% RH non-condensing

Storage ambient air temperature -20 to +70 °C/ -4 to +158 °F

Storage ambient air humidity 10% to 90% RH non-condensing

Certifications

Electromagnetic - EMC standards

- European Council EMC Directive 2004/108/EC
- United States FCC rule 47 CFR 15

EMC - Emission

- EN 55022:2010 Class B
- FCC 47 Part 15 Class B

EMC - Immunity

- EN 55024:2010 Class B
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-6

| | |
|------------------|--|
| KC Certification | Korean Radio Waves Act, Article 58-2, Clause 3 |
| Flammability | PCB compliant with UL 94 V-0 |
| RoHS | European Union Directive 2015/863 (ROHS3) |
| REACH | European Union Regulation 1907/2006 |
| WEEE | Must be disposed of separately from normal household waste and must be recycled according to local regulations |

Ordering Information

| | |
|----------------------------|---|
| Product code - Description | <ul style="list-style-type: none"> • 3602 - Coaxlink Octo |
| Included accessories | <ul style="list-style-type: none"> • 3304 - HD26F I/O Adapter Cable |
| Optional accessories | <ul style="list-style-type: none"> • 1625 - DB25F I/O Adapter Cable • 1636 - InterPC C2C-Link Adapter • 3303 - C2C-Link Ribbon Cable • 3610 - HD26F I/O Extension Module TTL-RS422 • 3612 - HD26F I/O Extension Module TTL-CMOS5V-RS422 • 3613 - JTAG Adapter Xilinx for Coaxlink • 3614 - HD26F I/O Extension Module - Standard I/O Set |



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