

Kinetic Technologies



Kinetic Technologies, San Jose, designs, develops and markets proprietary innovative, high-performance analog and mixed-signal integrated circuits, specializing in power, protection, video/audio interfacing and signal integrity, servicing consumer, communications, industrial, automotive and enterprise markets. Their core products sit "Behind Every Port™", providing solutions to manage, protect, regulate, and monitor power coming through the port, satisfying the growing demand for USB Type-C, DisplayPort™, HDMI™, Ethernet, and other power connectors in system designs.

POWER ICS

- USB and USB-C Overvoltage and Surge Protection ICs
- USB Data Line Protection ICs
- Interface and Isolation ICs
- Smart Push Button Reset ICs
- LCD Backlight and Bias Power ICs
- Camera LED Flash Driver ICs
- RGB LED Driver ICs
- Wireless Power Receiver
- Power Over Ethernet ICs
- EMI/ESD Suppressor
- USB Type-C Port Controllers
- DC-DC Converters



MOTOR CONTROLLERS

- 6-wire, 3 Phase Motor Controllers
- 3-wire, 3 Phase Motor Controllers

SMART CONNECTIVITY (DISPLAYPORT + USB)

- Repeaters
- Single Port Converters
- Multiport Converters

The Kinetic Technologies products meet and exceed some of the industry's toughest specifications and standards, such as VESA DP, Qi/WPC, IEE802.3, IEC61000-4-2, IEC61000-4.5, UL2367, IEC62368-1 and AEC-Q100.

Kinetic Technologies at a Glance

Smart Connectivity

Single Port Converters

MCDP2800	DisplayPort 1.2a-to-HDMI 2.0b LSPCON
MCDP2900	DisplayPort 1.4a-to-HDMI 2.0b Converter
MCDP5200	USB Type-C/DP 1.4a Alt-mode-to-HDMI 2.0b Converter with USB Timer
MCDP5240	USB Type-C/DP 1.4a Alt-mode-to-DP++ Converter with USB Timer
MCDP5250	DP 1.4a-to-HDMI 2.0b Converter
MCDP5290	DP 1.4a-to-DP++ Converter
STDP2550	Mobility DisplayPort (MyDP)-to-HDMI 1.4b Converter
STDP2600	HDMI 1.4b-to-DP 1.2a Dual Mode Converter
STDP2650	Dual mode DP 1.2a-to-HDMI 1.4b Converter
STDP2690	DP 1.2a-to-DP 1.2a Dual Mode Converter
STDP3150	DP 1.2a-to-VGA Converter
STDP4020	DP 1.1a-to-LVDS/LVTTL Converter
STDP4028	LVDS/LVTTL-to-DP 1.1a Converter

Multiport Converters

KTM50x0	USB Type-C/ DisplayPort1 .4 MST Hub
KTM54x0*	USB Type-C / DisplayPort2.0 MST Hub Protocol Converter
STDP4320	DP 1.2a/HDMI 1.4b

Repeaters

KTM6400*	DP2.0/USB-C/USB4 Retimer
MCDP6000	6:4 USB-C DP 1.4a Alt-mode Retimer
MCDP6150	DisplayPort 1.4a Retimer
MCDP6200	USB 3.2 x1 Gen1/Gen2 Retimer

USB Type-C Port Controllers

MCDP9000	USB Type-C Port Controller
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Design Evaluation Boards

Part Number	Evaluation Kit Number	Description
KTM50x0	RD4-5000	USB-C to USB-A / 3x DP 1.4a or HDMI 2.0b (DP++)
KTM50x0	RD5-5000	USB-C to USB-A / 3x DP 1.4a or HDMI 2.0b (DP++): Intel based
MCDP5200	RD1-5200	USB Type-C/DP Alt Mode to HDMI2.0 & USB Type-A
MCDP6000	RD4-6000	USB Type-C DP Alt-mode Switching Retimer
STDP2600	RD4-2600	HDMI 1.4b-to-DP 1.2a Dual Mode Converter
STDP2650	RD3-2650	DP 1.2 to HDMI 1.4 Converter
STDP2690	RD5-2690	DP 1.2a to Dual Mode DP 1.2a Converter
STDP2800	RD3-2800	DP 1.2a to HDMI 2.0b Converter (LSPCON)
STDP2900	RD2-2900	DP 1.4a to HDMI 2.0b Converter
STDP4020	RD1-4020	DP 1.1a-to-DVI Converter
STDP4020	RD2-4020	DP 1.1a-to-Quad LVDS Converter
STDP4028	RD1-4028	DVI to Display Port Converter
STDP4028	RD2-4028	LVDS-to-DP 1.1a Converter
STDP4320	RD1-4320	DP 1.2a to 2x DP 1.2a Splitter
STDP4320	RD5-4320	DP 1.2a to 2x HDMI 1.4b Splitter