



• Optocouplers

• Industrial Fiber

• Encoders

Upgrade Your Design

New Packages
More Features
Better Performance

Competitor Parts	Existing Parts	Upgrade Part	Upgrade Features	Footprint Information
Gate Drive				
TLP358F TLP350F FOD3120T PS9552L1/L2	HCNW3120 ACNW3190 ACNW3150	ACNW3430 ACNW3410 ACNU-3430 ACNU-3410	<ul style="list-style-type: none"> Up to 5A max. peak output current Very High CMR (100kV/μs) UVLO with VE reference for negative power supply Low Propagation Delay (<150ns) 40% smaller 11mm SSO8 package (ACNU) 	Pin layout change Smaller footprint
TLP350, TLP354/5774, FOD3120, PS9552, PS9505, V03120 LTV-3120, LTV343W 1ED160x12AF, S1823x*, S1826x, ADuM7223*	ACPL-1350 ACPL-1313 ACPL-1312 HCPL-3120 HCPL-3180 ACPL-H312/K312	ACPL-H342/ACPL-K342 ACPL-P341/ACPL-W341 ACPL-P343/ACPL-W343 ACPL-W346/ACPL-P346 ACPL-P349/ACPL-W349	<ul style="list-style-type: none"> Rail-to-Rail output voltage Integrated Active Miller Clamp (ACPL-x342) Lower Propagation Delay Anti-Cross conduction Very High CMR (up to 50kV/μs) 	Smaller footprint
TLP351, TLP701/705, TLP5701, FOD3181, FOD8314, PS9506, PS9306 S1823x*, S1826x	HCPL-0302 HCPL-0314 HCPL-1314 HCPL-3150/3140 HCPL-3151/3141* ACPL-P302/W302 ACPL-P314/W314	ACPL-P340/ACPL-W340 ACPL-P345/ACPL-W345 ACPL-P347/ACPL-W347	<ul style="list-style-type: none"> Rail-to-Rail output voltage Low Propagation Delay (<200ns) 50% smaller package size 8mm Creepage and Clearance (ACPL-W3xx) 	Smaller footprint
TLP5214/5231, FOD8316, FOD8318, FOD8332, FOD8333, PS9402 S18285/86, ADuM4136/4135, IS05451/5452/5500/5851/5852	HCPL-316J ACPL-330J ACPL-333J ACPL-331J ACPL-332J	ACPL-352J ACPL-302J ACPL-337J ACPL-336J ACPL-335J (Power MOSFET) ACPL-339J	<ul style="list-style-type: none"> 5A max. peak output current Rail-to-rail Dual output SiC/GaN MOSFET ready Functional Safety Reporting Integrated Active Miller Clamp Integrated DC-DC Controller for Floating power supply Rail-to-Rail output voltage DESAT and UVLO detection with isolated fault feedback Integrated Active Miller Clamp Up to 4A maximum peak output current Rail-to-Rail output voltage DESAT and UVLO detection with isolated fault feedback Integrated Active Miller Clamp Dual Output drive for external NMOS and PMOS buffer Integrated DESAT Detection Fault + UVLO status feedback 	Pin layout change Pin layout change Pin layout change Pin layout change
PSS9905 UCC53x0	HCNW3120 ACNW3130	ACNT-H343	<ul style="list-style-type: none"> Market highest insulation voltage 2262Vpeak 15mm creepage & clearance Up to 5A max. peak output current Very High CMR (100kV/μs) UVLO with VE reference for negative power supply Low Propagation Delay (<150ns) 	Smaller footprint
* Dual Channel				
Digital Optocouplers				
Low Power 1MBd				
FODM453 TLP109, TLP112, TLP114 PS8101, PS8821, PS9113, PS9122, PS9123	6N135/6N136 HCPL-05xx HCPL-253x HCPL-x55x	ACPL-M50L/ACPL-M51L ACPL-W50L ACPL-054L	<ul style="list-style-type: none"> Low forward current (IF > 3 mA min) High CTR ratio >90% min @ IF = 3 mA Wide temperature range (-40°C to 105°C) Wide supply voltage (2.7 V to 24 V) Low supply voltage down to 2.25V and 4-pin configurable (ACPL-M51L) Excellent CMR performance 15kV/μs @ Vcm 1500V Offer higher working insulation voltage 1140 Vpeak, isolation Voltage, 5000 Vrms (ACPL-W50L/K54L) 	Smaller footprint Drop-in replacement
TLP714F, TLP719F PS8302, PS9313 CNY64, VOW13x / VOW2611	HCPL-055x HCPL-253x HCNW135/136	ACPL-K54L ACNU-250L	<ul style="list-style-type: none"> Wider 11mm creepage and 10.5 mm clearance Wider Operating Temperature up to 105°C Lower supply voltage at 3.3V Higher CMR 	Smaller footprint
TLP2303, TLP2403 HCPL273x, MCL273x	HCPL-270x/4701 HCPL-273x/4731	ACPL-K70A ACPL-K73A	<ul style="list-style-type: none"> Wider 8mm creepage/ clearance Wider Operating Temperature up to 105°C 	Pin layout change
Low Power 5MBd				
SFH6720T, SFH6721, TLP105, TLP2355, TLP2105, TLP2405	HCPL-0201/0211 HCPL-220x/221x	ACPL-M21L ACPL-021L ACPL-W21L	<ul style="list-style-type: none"> Low Forward Current (IF@1.6mA min), allowing direct drive from microcontroller without an input buffer Low Supply Current (IDD@1.1mA max.) 	Smaller footprint Drop-in replacement Smaller footprint
SFH6731, SFH6732	HCPL-223x	ACPL-024L ACPL-K24L	<ul style="list-style-type: none"> Low Supply Voltages (VDD @ 2.7 – 5.5V), with support to go lower to 2.5V S05 package to reduce PCB board space and cost Min CMR at 25kV/μs @ Vcm 1000V to preserve data integrity under noisy environment Wide Temperature range (-40°C to 105°C) 	Smaller footprint

Competitor Parts	Existing Parts	Upgrade Part	Upgrade Features	Footprint Information
Ultra Low Power IOMBd				
FODM8061 TLP2361, TLP2366, TLP2468, TLP2160, TLP2161	HCPL-M6xx	ACPL-M61L/ACPL-M62L APL-M61M	<ul style="list-style-type: none"> • More than 80% power saving. • Low forward current (IF) to allow direct drive from microcontroller. • Wide temperature range (-40°C to 105°C). • Wider supply voltage (2.5V-5.5V). • CMOS output to eliminate pull-up resistor. • Open-drain output (ACPL-M62L) 	Drop-in replacement
	HCPL-060x	ACPL-061L		Drop-in replacement
	HCPL-061x			Drop-in replacement
	HCPL-063x HCPL-0661	ACPL-064L		Drop-in replacement
FOD8163T TLP2768F, TLP2766F PS9524L2	HCPL-260x	ACPL-W61L/ACPL-C61L	<ul style="list-style-type: none"> • Market highest insulation voltage 2262Vpeak • 14.2mm creepage & clearance in compact stretched S08 • High transient overvoltage 12,000Vpeak • Lowest power consumption <20mW 	Smaller footprint
	HCPL-261x			Smaller footprint
	ACPL-W61I			Smaller footprint
	ACPL-W60L			Smaller footprint
	ACPL-P61I	Smaller footprint		
	HCPL-263x	ACPL-K64L		Smaller footprint
	ACPL-K63L			Smaller footprint
HCPL-4661	ACPL-C61L ACPL-W61L	Smaller footprint		
ACPL-W60L/W61I/ P61I, 6N137, HCPL- 260L/260I/261I, HCPL-261A/261N		Smaller footprint		
FOD8160 PS9924	HCNW137/260I/261I ACNV261L ACNV260I	ACNW261L ACNT-H61L	<ul style="list-style-type: none"> • Market highest insulation voltage 2262Vpeak • 14.2mm creepage & clearance in compact stretched S08 • High transient overvoltage 12,000Vpeak • Lowest power consumption <20mW 	Drop-in replacement
	Stretched S08 package			
PS9351L2, PS9309L2, TLP2766F, TLP2768F x 2	ACPL-W61L x2	ACPL-6211U/ACPL-6212U	<ul style="list-style-type: none"> • Compact size in fine-pitch (0.8mm) in Stretched S012 package, reducing PCB Board space • Extended Temperature range up to 125°C • Bi-directional Feature 	Smaller footprint
High Speed Family (>12.5MBd)				
	HCPL-0708	ACPL-071L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Glitch-Free Output 	Drop-in replacement
	HCPL-0738	ACPL-074L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Glitch-Free Output 	Smaller footprint
	HCPL-0708	ACPL-M75L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Glitch-Free Output 	Smaller footprint
	HCPL-2400	ACPL-W70L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Smaller 8mm C/C package (Stretched S06) • Glitch-Free Output • Lower Speed (15MBd)* 	Smaller footprint
	HCPL-2430	ACPL-K73L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Smaller 8mm C/C package (Stretched S08) • Glitch-Free Output • Lower Speed (15MBd)* 	Smaller footprint
FOD0720, FOD8012A	HCPL-0710/20/21 ACPL-072L	ACPL-077L ACSL-7210	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Wide temperature (-40°C to 105°C) • Lower PWD (<6ns) (ACPL-077L) • 3.75kViso Bi-directional in <2mm low height (ACSL-7210) 	Drop-in replacement for ACPL-077L Smaller footprint in dual-channel Bi-directional (ACSL-7210)
	HCPL-7710/20/21	ACPL-772L	<ul style="list-style-type: none"> • Flexible supply voltages (3.3V/5V) • Lower Propagation Delay (<40ns) • Wide temperature (-40°C to 105°C) • Glitch-Free Output • Lower Speed (15MBd)* 	Smaller footprint

Competitor Parts	Existing Parts	Upgrade Part	Upgrade Features	Footprint Information
Isolation Amplifier				
AMC1204/B, AMC1305M25 AD7401, AD7403	HCPL-786x	ACPL-796J	<ul style="list-style-type: none"> • External docking (up to 20MHz) for multichannel synchronization 	S0-16 footprint
AMC1305L25 AD7405		ACPL-798J	<ul style="list-style-type: none"> • Up to 25MHz external clocking • LVDS clock and data interface 	
AMC1203/B AD7400/A, AD7402 TLP7850	HCPL-7860 ACPL-C797 ACPL-7970	ACPL-C799 / ACPL-C740	<ul style="list-style-type: none"> • 50mV / 250mV linear range • 10MHz / 20MHz internal clock • 16-bits resolution no missing codes (12 bits ENOB) • 77dB SNR (typ) • 1.3uV / C offset drift (max.) • 3V to 5.5V wide supply range for digital interface 	
AMC1200/B TLP7820, TLP790 S18920 PS8551	HCPL-7800 HCPL-7800A HCPL-7840 ACPL-C78x	ACPL-C798, ACPL- C79A, ACPL-C790 ACPL-790B, ACPL-790A, ACPL-7900	<ul style="list-style-type: none"> • 30.5%/31%/33% gain accuracy • Better linearity • 30% smaller package size • 8 mm Creepage and Clearance • 144 Vpeak working insulation voltage 	Smaller footprint
ISO122 AMC1200/B TLP7820		ACPL-C87A ACPL-C87B ACPL-C870	<ul style="list-style-type: none"> • 0-2V input range voltage sensor • 3.5% / 31% / 33% gain accuracy • -35 ppm/°C Low Gain Drift • -0.3 mV Input Offset Voltage • 3 V to 5.5 V Wide Supply Range for Output Side 	Smaller footprint
		HCPL-788J / HCPL-785J	<ul style="list-style-type: none"> • 0-2V input range voltage sensor • 30.5%/31%/33% gain accuracy • -35 ppm/°C Low Gain Drift • -0.3 mV Input Offset Voltage • 3 V to 5.5 V Wide Supply Range for Output Side 	
		HCPL-7510	<ul style="list-style-type: none"> • 3.3% gain accuracy • Overcurrent fault detection 	
		HCPL-7520	<ul style="list-style-type: none"> • 3.5% gain accuracy • Single Ended Output 	
AMC120/B TLP7820 S18920	ACPL-C790 ACPL-C79A ACPL-C79B	ACNT-H79A ACNT-H790	<ul style="list-style-type: none"> • Market highest insulation voltage 2262Vpeak • 14.2mm creepage & clearance • -50ppm/° Low Gain Drift • 3.1% / 3.3% gain accuracy 	Stretched S08 package
Intelligent Power Module Interface Optocoupler				
SFH6345 TLP550, TLP559, TLP759	HCPL-4502 HCPL-4503	ACPL-K453	<ul style="list-style-type: none"> • 8 mm Creepage and Clearance • 50% smaller package size 	Smaller footprint
PS8302L2 TLP719F	HCPL-4504	ACPL-W454		Smaller footprint
PS9213, PS9331L2 TLP719F	HCPL-4506	ACPL-W456		Smaller footprint
PS9303L2 TLP706, TLP715F, TLP718F	ACPL-4800	ACPL-W480		Smaller footprint
TLP105, TLP108	HCPL-M452/3/4/6	ACPL-M484 ACPL-M483	<ul style="list-style-type: none"> • Higher CMR 30kV/μs • 10MBd speed • Totem-pole output, positive logic (M484), negative logic (M483) 	Faster speed
PS9309L2 TLP715F, TLP718F	HCPL-4502/03/04/06 HCPL-0452/53/54/66	ACPL-W484 ACPL-W483	<ul style="list-style-type: none"> • 8 mm Creepage and Clearance • Higher CMR 30kV/μs • 10MBd speed • Totem-pole output, positive logic (W484), negative logic (W483) 	Faster speed
VOW135, VOW136	HCNW4502/3/4/6	ACNU-4803 ACNU-4804	<ul style="list-style-type: none"> • Wider 11mm creepage and 10.5 mm clearance • Wider Operating Temperature up to 105°C • Higher CMR 	Smaller footprint
FODM452, FODM453 TLP109, TLP112, TLP114 PS9113, PS9122	HCPL-M452/53/54	ACPL-M43U	<ul style="list-style-type: none"> • Wide temperature (-40°C to 105°C) • Low LED input drive current IF 10mA 	Drop-in replacement
	HCPL-M456	ACPL-M46U	<ul style="list-style-type: none"> • Wide temperature (-40°C to 105°C) 	Drop-in replacement

Note: Drop-in-replacement means no PCB board redesign is required

Upgrade	Feature	Benefit
High Voltage Insulation		
Improved Isolation/Insulation Ability to protect surrounding circuitry against physical damages resulting from differential voltages.	ACNV/ACNT family offers highest available working voltage ratings with regulatory approval per IEC/EN/DIN EN 60747-5-5 of 2262 V peak.	Meets international safety regulations and standards. Provides better isolation and overall safety performance.
Noise Isolation		
High CMR Common-mode transient rejection or signal isolation of data through suppression of noise transients.	Offers guaranteed CMR performance up to 100 kV/μs which is the highest available in the market.	Improves system performance, and reliability . More robust systems and better data integrity meet EMI and ESD requirements.
Power Consumption		
Drive Current, I_d Low Drive Current, LED drive current.	Offers the lowest I_d (up to 40 μA) devices in the market and broadest HCMOS compatibility.	Eliminates additional LED drive circuitry . Improves system efficiency and reduces power consumption and LED degradation.
Lower Power Supply Lower power supply (3.3V)	Lower the power consumption and meets JEDEC low voltage requirements.	Up to 50% energy saving.
Flexible Supply Voltages (3.3V/5V)	Support a combination of two different supply voltages at the input and output.	Built-in internal level shifter , eliminate the need of extra power supply. 3.3V or 5V. 3.3V helps to improve the overall power consumption.
Temperature		
Temperature The DC, speed performance and the reliability information is ensured at the specific temperature range.	Support up to -40°C to 125°C temperature range.	Allow extreme temperature operation.
Speed Benefits		
Propagation Delay, tp Describes how quickly a logic signal can propagate through the system.	High speed digital optocouplers to meet wide range of applications with tp as low as 22 ns .	Increase switching efficiency and better speed performance.
Upgrade Pulse Width Distortion, PWD PWD is the difference between I _{PHL} and I _{PHL} and often determines the maximum data rate capability of a transmission system.	The lowest PWD offered by optocoupler is 2 ns .	To ensure signal data integrity over long bus line.
Package and Space Savings		
Multi-Channels, Bi-directional Features	Integrated dual, triple, quad with bi-directional channels offers in small S08 and S016 package. Bi-directional 2 channels with LED direct drive in Stretched S012 package	The integrated bi-directional channels help in space savings and ease of designs.
Surface Mount Device SMD permits more component density than DIP.	Smaller package to deliver the same functionality as standard DIP. True surface mount technology and standard footprint.	Lower assembly cost , easier and faster handling as well as better solderability.
ACNT 15mm Creepage/Clearance Package	Compact stretched S08 package able to withstand high insulation 2,262 Vpk and transient overvoltage 12,000 Vpk	Provides space savings . Meets IEC/UL/CSA new/ latest revision equipment standards for C/C, insulation voltage and/or transient overvoltage needs.
ACPL-P/W/H/K 8mm Creepage/Clearance Package ACNU 11mm Creepage/Clearance Package	The package is 50% smaller than conventional DIP package. It can withstand high isolation voltages and meet regulatory requirements such as IEC/UL/ CSA standards.	Provides space savings . Allows high voltage surge protection. Meets many IEC/UL/CSA equipment standards that call for clearance and creepage of 8mm .
Smaller S05 Package	Smaller S05 package (as compared to existing S0-8 package)	Provides greater than 40% space savings .



Existing Parts	Upgrade Part	Upgrade Features	Footprint Information
HEDS-9140	AEDT-9810	<ul style="list-style-type: none"> High Resolution of up to 5000 Counts per Revolution -40°C to 115°C Operating Temperature Low Power Consumption (Typical Icc: 20 mA) Spatial play tolerance of 0.40mm Allows motor shaft axial play of 30.15mm Choice of Index Pulse Width (90° and 180°) Better ESD Immunity HBM 4kV (JESD22-A114D) 	<ul style="list-style-type: none"> Pin Compatible to legacy HEDS-9xxx Series
HEDC-55xx	AEDC-55xx	<ul style="list-style-type: none"> Available in two or three channel encoder A,B and I Latching connector design Single 5V supply Resolution of up to 5000 CPR TTL compatible, with single ended or differential output. Quick assembly No signal adjustment required Small size -40 °C to 85 °C operating temperature 	<ul style="list-style-type: none"> Compatible mounting to legacy HEDC-55xx Series External mounting ears option available for larger motors.
HEDM-550x	AEDM-5810	<ul style="list-style-type: none"> High Resolution - up to 5000 CPR Operating temperature - 40°C to +85°C Quick and easy assembly No signal adjustment required Cost Effective solution Small size TTL compatible output Single 5V supply with 310% tolerance Differential Output (Line Driver) available with AEDL-581x Series 	<ul style="list-style-type: none"> Compatible mounting to legacy HEDM-55xx Series External mounting ears option available for larger motors.
AEDR-8320	AEDR-8723	<ul style="list-style-type: none"> Analog Output option - 2 channels differential analog output (Sin, /Sin, Cos, /Cos) and with a digital index (I) output. Operating voltage of 3.3V or 5V supply Built in LED current regulation, hence no external biasing resistor needed. -20°C to 85°C absolute operating temperature High encoding resolution: 318 (lines/inch) 	<ul style="list-style-type: none"> Surface mount leadless package - 3.95 mm (L) x 3.4 mm (W) x 0.9562 mm (H)
AEDR-8300 AEDR-8400 AEDR-8500	AEDR-8710	<ul style="list-style-type: none"> World smallest 3 channels reflective technology encoder. Digital Output option - 3 channels TTL compatible; two channel quadrature digital outputs for direction sensing and a 3rd channel, Index digital output. Built in interpolator for 4x, 8x and 16x interpolation. Operating voltage of 3.3V or 5V supply Built in LED current regulation, hence no external biasing resistor needed. -20°C to 85°C absolute operating temperature Encoding resolution: 318 (lines/inch) 	<ul style="list-style-type: none"> Surface mount leadless package 3.95 mm (L) x 3.4 mm (W) x 0.9562 mm (H)
AEAT-6600-S16	AEAT-8800-Q24	<ul style="list-style-type: none"> Smaller form factor with QFN 5mm x 5mm package UVW pinout for low end computation motor applications Higher accuracy with lower step jump for absolute encoder applications Lower latency for incremental encoder operations across different resolutions Typically lower latency > 3X 	<ul style="list-style-type: none"> Smaller form factor with QFN 5mm x 5mm package
	AEAT-8811-Q24	<ul style="list-style-type: none"> Better performance No customer offset calibration required 	



Existing Parts	Upgrade Part	Upgrade Features	Pricing Comparison	Footprint Information
Miniature Link Transmitters and Receivers				
HFBR-1412xZ HFBR-1414xZ	HFBR-1412xPZ HFBR-1414xPZ	• ESD enhanced device: 2kV HBM	Same prices	Drop-in replacement
HFBR-2416xZ	AFBR-2418xZ AFBR-2419xZ	<ul style="list-style-type: none"> • Integrated quantizer • Digital TTL/CMOS compatible output • Analog receiver signal strength indicator output • Reduced design effort and PCB space • Enhanced EMC performance • Short propagation delay • Lower power consumption • 3.3V or 5V supply voltage 	<ul style="list-style-type: none"> • Price premium due to significant better features: • Fully integrated Rx with digital output 	Same footprint, but digital output along with RSSI
High Galvanic Insulation Link				
HFBR-3810xZ	AFBR-390525RZ	<ul style="list-style-type: none"> • VDE Certification as per IEC 60747-5-5 • Lower power consumption • Shorter propagation delay with guaranteed max part-to-part skew 	Up to 30% cost saving	Similar footprint
HFBR-3810xZ	AFBR-3905xxRZ AFBR-3950xxRZ	<ul style="list-style-type: none"> • VDE Certification as per IEC 60747-5-5 • Up to 50 kV peak transient voltage suppression • Up to 12 kV effective working voltage • Four creepage / clearance length options • Two speed options: DC to 5 MBd and DC to 50 MBd 		Different footprints
Fast Ethernet POF & MM GOF				
AFBR-5972Z	AFBR-5972EZ AFBR-5972BZ	<ul style="list-style-type: none"> • 45% lower max power consumption • Better EMI immunity for highest system robustness • LVDS I/Os for direct interface to FPGAs • Up to 250MBd link rate for higher bandwidth requirements 	Price premium due to significant better features	Same footprint, but different electrical interface
HFBR-5961ALZ	AFBR-59E4APZ-LH	• 60% lower max. power consumption	Price premium due to significant lower power consumption	Same footprint, same optical interface (-LT with reduced LOP), change of external data I/O termination required
HFBR-57E5APZ	AFBR-57E6APZ	• 50% lower max. power consumption	Price advantage possible	Drop-in replacement
AFBR-59E4APZ	AFBR-59E4APZ-HT	<ul style="list-style-type: none"> • 95°C max. Temp • Four additional housing leads for improved signal grounding and heat dissipation (AFBR-59E4APZ) 	Price premium	Four additional housing leads
AFBR-57E6APZ	AFBR-57E6APZ-HT		Small price premium	Drop-in replacement





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06/01/2020

