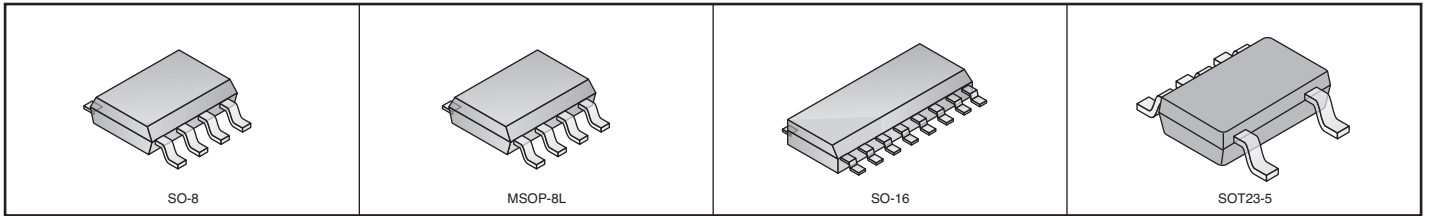


HENDON Integrated Circuits



RoHS Compliant This product is RoHS compliant.

Analog ICs



Hendon

FAST DUAL BI-DIRECTIONAL BUS BUFFER/REPEATER

Using analog design principles, the IES5501 is a true bi-directional bus buffer for use in 2-wire bus systems such as I²C™, SMBus™, PMBus™ & IPMB etc.
The function of the bus buffer is to extend the bus load limit by buffering the Clock (SCL) and Data (SDA) lines.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Voltage (Vcc)	Output Low Voltage (Vol)	Input Low Threshold	Bus Voltage	Operating Ambient Temperature	Price Each		
								1	200	500
792-IES5501T	IES5501T	SO-8	2.7 – 5.5V	V _{il} + 30mV	0.3V _{cc}	1.8 – 15V	-40 to +85°C	2.58	2.07	1.63
792-IES5501D	IES5501D	MSOP-8L	2.7 – 5.5V	V _{il} + 30mV	0.3V _{cc}	1.8 – 15V	-40 to +85°C	2.61	2.09	1.65

FAST DUAL BI-DIRECTIONAL BUS BUFFER WITH HOT INSERTION LOGIC

Using analog design principles, the IES5502 is a true dual bi-directional bus buffer for use in 2-wire bus systems such as I²C™, SMBus™, PMBus™ & IPMB or other systems where hot insertion logic for detecting stop and idle conditions is required for live insertion into backplanes.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Voltage (Vcc)	Output Low Voltage (Vol)	Input Low Threshold	Bus Voltage	Operating Ambient Temperature	Price Each		
								1	200	500
792-IES5502T	IES5502T	SO-8	2.7 – 5.5V	V _{il} + 85mV	0.3V _{cc}	1.8 – 15V	-40 to +85°C	3.03	2.17	1.92
792-IES5502D	IES5502D	MSOP-8L	2.7 – 5.5V	V _{il} + 85mV	0.3V _{cc}	1.8 – 15V	-40 to +85°C	3.06	2.45	1.94

SIMPLE 2-WIRE BUS BUFFER/BUS REPEATER

The IES5505 (4mA) and IES5515 (30mA) are monolithic CMOS integrated circuits designed for applications where a full-featured bus buffer is not required. Their simple characteristics are suitable for quick implementation in most two-wire bus applications.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Voltage (Vcc)	Output Low Voltage (Vol)	Input Low Threshold	Bus Voltage	Operating Ambient Temperature	Price Each		
								1	200	500
792-IES5505T	IES5505T	SO-8	2.7 – 5.5V	80mV @ 4mA	0.5V	1.8 – 15V	-40 to +85°C	1.05	.89	.75
792-IES5505D	IES5505D	MSOP-8L	2.7 – 5.5V	80mV @ 4mA	0.5V	1.8 – 15V	-40 to +85°C	1.24	1.00	.79
792-IES5507T	IES5507T	SO-16	2.7 – 5.5V	80mV @ 30mA	0.5V	1.8 – 15V	-40 to +85°C	2.05	1.81	1.53
792-IES5515T	IES5515T	SO-8	2.7 – 5.5V	80mV @ 30mA	0.5V	1.8 – 15V	-40 to +85°C	1.18	1.00	.85
792-IES5515D	IES5515D	MSOP-8L	2.7 – 5.5V	80mV @ 30mA	0.5V	1.8 – 15V	-40 to +85°C	1.39	1.12	.88

TEMPERATURE CONTROL ICs

Hendon Semiconductors temperature control integrated circuits have been designed specifically to cover a wide range of simple, low cost thermostat applications with particular attention to increased performance and sensing capabilities in AC applications.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Description	Output Current	Operating Ambient Temperature	Price Each		
						1	200	500
792-OM1654AT	OM1654AT	SO-8	Simple Zero-Crossing Triac Control	10mA	0° to +100°C	1.10	.83	.75
792-IES5521AT	IES5521AT	SO-8	Zero Crossing Triac Control with Time-Out	10mA	-25° to +100°C	1.00	.79	.70
792-IES5523AT	IES5523AT	SO-8	Simple Zero-Crossing Triac Control	10mA	-25° to +100°C	1.18	.93	.82
792-OM1682AT	OM1682AT	SO-16	Precision Triac Control Thermostat	50mA	0° to +125°C	1.60	1.31	1.09
792-OM1894T	OM1894T	SO-16	Dual Precision Triac Control Thermostat	50mA	0° to +125°C	1.59	1.34	1.19
792-OM1895AT	OM1895AT	SO-8	Simmerstat Triac Control IC	50mA	0° to +85°C	1.52	1.22	.96
792-OM1895BT	OM1895BT	SO-8	Simmerstat Triac Control IC	50mA	0° to +85°C	1.52	1.22	.96

POWER AND MAINS PHASE CONTROL ICs

Phase Control and General Purpose Triac Triggering Circuit

The OM5428 provides basic AC phase control and also has on/off switching mode designed to switch at mains zero crossing to minimize RF interference and mains transients. Another feature of the OM5428 includes time proportional control that provides more accurate temperature control by avoiding temperature overshoot that is apparent in basic on/off control.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Current Max. (-IEE)	Output Current	Operating Ambient Temperature	Price Each		
						1	200	500
792-OM5428T	OM5428T	SO-16	250µA	80mA	-40 to +85°C	1.36	1.09	.86

LED DRIVER ICs

Low Voltage LED Driver and Voltage Boost Circuit

The OM5448 is a low voltage bipolar integrated circuit that can operate on a supply voltage of 3.5V to as low as 1V DC. The most important characteristic of the OM5448 is to provide single or multiple LED drive from a single cell battery or other low voltage source with minimal external components.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Voltage (Vcc)	Output Current Max	Output Drive Voltage Max	LED Output Max Power	Operating Ambient Temperature	Price Each		
								1	200	500
792-OM5448TR	OM5448TR	SOT23-5	1 to 3.5V	500mA	14V	1W	-40 to +85°C	.59	.52	.46

RELAY CONTACT PROTECTION ICs

The IES5541A contact protection circuitry can increase relay lifetime by as much as 10 fold. IES5541A provides effective relay contact protection against arcing with most types of AC loads. Inbuilt interface for NTC thermistor sensors provides direct stand-alone temperature control capability.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Hendon Part No.	Package Type	Supply Current Max. (-IEE)	Output Current (ITRIG)	Operating Ambient Temperature	Price Each		
						1	200	500
792-IES5541AT	IES5541AT	SO-8	210µA	50mA	0° to +100°C	2.14	1.88	1.70

DEMO BOARDS

MOUSER STOCK NO.	Hendon Part No.	Description	Price Each
792-HM169-06	HM169-06	Demo Board for OM1682A that can be readily modified for multiple applications	34.00
792-HM179	HM179	Demo Board for OM1894 that can be set up as a nominal refrigeration thermostat	34.00
792-HM226-L	HM226-L	Demo Board for IES5541A - Logic Version	34.00
792-HM226-T	HM226-T	Demo Board for IES5541A -	34.00
792-HM211	HM211	Demo Board for OM5428 set up as generic phase controller	34.00
792-HM214	HM214	Demo Board for OM5448 LED Driver	34.00
792-HM250	HM250	Demo Board for OM1654A, IES5521A	34.00



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