

LIND™ Auto Power Adapter
for
PowerBooks™ 100-180c
Model PB-2

Thank you for purchasing a LIND Automobile Power Adapter for your Macintosh. Because LIND designs and manufactures only the highest quality products available for mobile computing, you can rest assured that any product bearing the LIND name has been thoroughly researched and tested to provide exceptional performance.

The LIND Automobile Power Adapter is specifically designed for use with the Powerbook series of portable computers. Power from a 12 Volt DC source is reduced and regulated to the 7.5 VDC level required by PowerBook computers for proper and safe operation.

Using Your Auto Power Adapter

The adapter has a power input plug sized to fit most automobile cigarette lighter receptacles. A ready light on the cigarette lighter plug is ON when 12 volt DC input power is applied and the adapter is functioning properly.

The output plug fits the power jack on the rear of the PowerBook computer.

The "Lightning Bolt" icon will appear on the battery control panel when the power plug is inserted into the power jack.

The PowerBook will operate with the auto adapter just as it does with the AC adapter supplied with the computer.

Technical Information

INPUT VOLTAGE	- 11 to 16 VDC
OUTPUT VOLTAGE	- 7.5 VDC
OUTPUT CURRENT	- 3.0 Amperes
Max	
WEIGHT	- 11 Ounces
SIZE	- 3.9 x 2.4 x 1.0
in	
INPUT CABLE	- 3 Feet
OUTPUT CABLE	- 3 Feet
INPUT FUSE	- 5 Amp
	0.25 x 1.25 AGC

**LIND™ Full-Cycle
Charger-Conditioner
PowerBooks™ 140 - 180c**
Model BC-4070

Thank you for purchasing a LIND Full-Cycle Charger-Conditioner for your Macintosh®. Because LIND designs and manufactures only the highest quality products available for mobile computing, you can rest assured that any product bearing the LIND name has been thoroughly researched and tested to provide exceptional performance.

The LIND Full-Cycle Charger-Conditioner is specifically designed to charge and condition the battery used in the PowerBook. These NiCd batteries are subject to loss of capacity if not exercised over their entire charge range. The LIND Full-Cycle Charger-Conditioner gives the user the option of fully discharging the battery prior to charging, thus preventing and correcting the loss of capacity commonly called "Memory Effect."

Charging Your Battery

Apply charging power to the BC-4070 by plugging one of the power source cables into the jack at the rear of the unit. Power from the 115 VAC line is obtained using the transformer provided, or from an automobile or other 12 VDC source using the optional DC powercable .

Remove the battery from your PowerBook computer and insert it into the slot at the top of the battery charger assembly. Note the orientation of the battery contacts in the slot and insert the battery, accordingly.

The amber indicator on the face of the charger shows that the battery has made proper contact and the charger is in fast charge mode. The battery will fast charge to approximately 80% of it's capacity at which time the green indicator will come ON.

The battery will then trickle charge to full capacity. A fully depleted battery will fast charge to 80% of capacity in 2.5 hours and trickle charge to full capacity in another 2.5 to 3 hours. If for some reason the battery is not 80% charged within 2.5 to 3 hours, the fast charge will be terminated on an elapsed time basis.

The charger will become warm when charging or conditioning. Charging should be done with the charger on a hard, flat surface with air allowed to circulate around it and the battery.

Conditioning Your Battery

You have the option of conditioning the battery prior to each charging cycle. Simply depress the "Discharge" switch with the battery in place.

The red indicator will come ON and the discharge conditioning cycle will start. The conditioning cycle may take as long as 3 hours for a completely charged battery.

The discharge cycle can be cancelled at any time by removing and reinserting the battery into the charger housing.

It is recommended that the battery be conditioned several times a week to prevent loss of capacity due to a build up of chemical actions covered under the heading of "Memory Effect."

If your battery has lost capacity over a period of use, full capacity can usually be restored by running it through several successive conditioning-charging cycles.

Caution

Do not charge or store batteries at elevated temperatures. A severe reduction of battery life will result.

Immediately remove the battery from the charger if it becomes hot to the touch.

The battery is discharged to a safe 5 VDC (1.0 volt per cell) in the conditioning cycle. This is lower than the cut-off voltage of the PowerBook, thus the battery is better exercised over its charge range in the conditioning cycles. The trickle charge rate is low enough to allow the battery to be left in the charger for long periods without overcharge or overheating

Technical Information

INPUT POWER	- 115 VAC using the transformer - 11 to 14 VDC from auto lighter socket using the DC power cable provided
CHARGE RATE	- 1.0 Amp Max fast charge 150ma in trickle charge
80% CHARGE TIME	- 2.5 hours for a fully discharged battery
FAST CHG CUT OFF	- 2.8 hours (Approx.)
FULL CHARGE TIME	- An added 2.5 hours at trickle charge
DISCHARGE RATE	- 1.0 Ampere Maximum
DISCHARGE TIME	- Zero to 3 hours depending on charge
WEIGHT	- 20 ounces with transformer and DC power cable
SIZE	- 4.5 in. x 4.5 in. x 2.5 in.
AC TRANSFORMER CABLE	- 6 feet long
DC INPUT CABLE	- 6 feet long (optional)
DC INPUT FUSE	- 3 Amp 0.25 x 1.25 AGC

LIND™
SuperCharger I

PowerBooks™ 140 & Higher
Model SBC-1

Thank you for purchasing a LIND SuperCharger for your Macintosh®. Because LIND designs and manufactures only the highest quality product available for mobile computing, you can rest assured that any product bearing the LIND name has been thoroughly researched and tested to provide exceptional performance.

The LIND SuperCharger is specifically designed to CHARGE NiCd PowerBook batteries as quickly and completely as possible. The battery is charged to maximum capacity in as little as two hours with no time consuming trickle charging required. The SBC-1 also **CONDITIONS** the NiCd PowerBook battery to prevent and correct the loss of capacity due to "Memory Effect". The LIND SuperCharger has advanced design features that will assure a fast, full charge with maximum power each cycle of use.

Charging with the LIND SuperCharger I

Insert the plug from the AC adapter into the power jack on the top of the charger.

Plug the wall mount AC adapter included with the LIND SuperCharger into a 115 VAC power outlet. The green indicator will come ON.

Insert a battery into the slot in the charger. Note the orientation of the battery contacts in the slot and insert the battery accordingly.

The amber indicator on the face of the charger shows that the battery has made proper contact and the charger is in the fast charge mode.

The battery will fast charge to FULL capacity, at which time the green indicator will come ON.

A fully depleted battery will fast charge to full capacity in 2 to 2.5 hours.

A small, pulsed trickle charge current is applied to maintain full charge if the battery is left in the charger.

Conditioning with the LIND SuperCharger I

You have the option of conditioning the battery prior to each charging cycle. Simply depress the Discharge button with the battery in place.

The red indicator will come ON and the discharge conditioning cycle will start.

The conditioning cycle may take as long as 3 hours for a completely charged battery.

The normal charge cycle will automatically begin when the discharge is complete.

The discharge portion of the cycle can be cancelled at any time by removing and reinserting the battery into the charger housing.

NOTE: The SBC-1 will become warm when charging or conditioning. Charging should be done with the charger on a hard flat surface allowing air to circulate around it and the battery.

It is recommended that the battery be conditioned several times a week to prevent loss of capacity due to "Memory Effect". If your battery has lost capacity over a period of use, full capability can usually be restored by running it through several successive conditioning-charging cycles.

The battery is discharged to a safe 5 VDC (1.0 volt per cell) in the conditioning cycle. Thus, the battery is exercised over its entire charge range in the conditioning cycle. The trickle charge rate is low enough to allow leaving the battery in the charger for moderate periods without overcharge or overheating. However, the battery should not be stored in the charger for long periods as extended trickle charging can induce chemical imbalances which temporarily reduce battery performance.

Technical Information

INPUT POWER	- 115 VAC using transformer
	- 11 to 14 VDC from auto lighter
CHARGE RATE	- 1.5 Amp Max fast charge
	- 100 ma in trickle charge (pulsed)
FULL CHARGE TIME	- 2-2.5 Hours for fully discharged battery
FAST CHARGE CUT OFF	- 3 Hours if battery will not full charge
DISCHARGE RATE	- 1.0 Amp typical
DISCHARGE TIME	- Up to 3 hours depending on time
WEIGHT	- 16 Ounces (charger only)
SIZE	- 4.7 x 2.2 x 3.2 inches
AC TRANSFORMER CABLE	- 6 Feet Long
DC INPUT CABLE (optional)	- 6 Feet Long
DC INPUT FUSE	- 3 Amp 0.25 x 1.25 AGC

Caution

Do not charge or store batteries at elevated temperatures. A severe reduction of battery life will result. Immediately remove the battery from the charger if it becomes hot to the touch.

LIND™
SuperCharger II
Apple PowerBook Duo 200

Model SBC-2

Thank you for purchasing a LIND SuperCharger for your Macintosh®. Because LIND designs and manufactures only the highest quality products available for mobile computing, you can rest assured that any product bearing the LIND name has been thoroughly researched and tested to provide exceptional performance.

The LIND SuperCharger is specifically designed to CHARGE NickelMetal Hydride PowerBook Duo batteries as quickly and completely as possible. The battery is charged to maximum capacity in as little as two hours with no time consuming trickle charging required. The SBC-2 also CONDITIONS the PowerBook Duo battery to prevent and correct the loss of capacity due to "Memory Effect". The LIND SuperCharger has advanced design features that will assure a fast, full charge with maximum power each cycle of use.

Charging with the LIND SuperCharger II

Insert the plug from the AC adapter into the power jack on the top of the charger.

Plug the wall mount AC adapter included with the LIND SuperCharger into a 115 VAC power outlet. The green indicator will come ON.

Insert a battery into the slot in the charger. Note the orientation of the battery contacts in the slot and insert the battery accordingly.

The amber indicator on the face of the charger shows that the battery has made proper contact and the charger is in the fast charge mode. The battery will fast charge to FULL capacity, at which time the green indicator will come ON.

A fully depleted battery will fast charge to full capacity in 2 hours.

A small, pulsed trickle charge current is applied to maintain full charge if the battery is left in the charger.

Conditioning with the LIND SuperCharger II

You have the option of conditioning the battery prior to each charging cycle. Simply depress the Discharge button with the battery in place.

The red indicator will come ON and the discharge conditioning cycle will start.

The conditioning cycle may take as long as 3.5 hours for a completely charged battery.

The normal charge cycle will automatically begin when the discharge is complete.

The discharge portion of the cycle can be cancelled at any time by removing and reinserting the battery into the charger housing.

NOTE: The SBC-2 will become warm when charging or conditioning. Charging should be done with the charger on a hard flat surface allowing air to circulate around it and the battery.

It is recommended that the battery be conditioned several times a week to prevent loss of capacity due to "Memory Effect". If your battery has lost capacity over a period of use, full capability can usually be restored by running it through several successive conditioning-charging cycles.

The battery is discharged to a safe 10 VDC (1.0 volt per cell) in the conditioning cycle. Thus, the battery is exercised over its entire charge range in the conditioning cycle. The trickle charge rate is low enough to allow leaving the battery in the charger for moderate periods without overcharge or overheating. However, the battery should not be stored in the charger for long periods as extended trickle charging can induce chemical imbalances which temporarily reduce battery performance.

The indicators will light if a battery is placed in the charger without first being plugged into a wall outlet. Always apply power to the charger before inserting the battery and never leave the battery in an unplugged charger.

LIND™ DC Power Adapter

for
PowerBooks™ 100-180c

Model PB-24

Thank you for purchasing a LIND Power Adapter for your Macintosh. Because LIND designs and manufactures only the highest quality products available for mobile computing, you can rest assured that any product bearing the LIND name has been thoroughly researched and tested to provide exceptional performance.

The LIND DC Power Adapter is specifically designed for use with the Powerbook series of portable computers. Power from a 12 to 28 Volt DC source is reduced and regulated to the 7.5 VDC level required by PowerBook computers for proper and safe operation. You may obtain power from an Auto, Boat, Aircraft or other DC source.

Using Your DC Power Adapter

- The adapter has a power input plug sized to fit most automobile cigarette lighter receptacles.
- A ready light on the front of the adapter is ON when DC input power is applied and the adapter is functioning properly.
- The output plug fits the power jack on the rear of the PowerBook computer.
- The "Lightning Bolt" icon will appear on the battery control panel when the power plug is inserted into the power jack.
- The PowerBook will operate with the DC adapter just as it does with the AC adapter supplied with the computer.

Technical Information

INPUT VOLTAGE	11 to 28 VDC
OUTPUT VOLTAGE	7.5 VDC
OUTPUT CURRENT	3.0 Amperes Max
WEIGHT	11 Ounces
SIZE	3.9 x 2.4 x 1.0 in
INPUT CABLE	3 Feet
OUTPUT CABLE	3 Feet
INPUT FUSE	3 Amp AGC 0.25 x 1.25

LIND™ Auxiliary Power Pack

for
PowerBooks™ 100-180c
Model APP-2

The LIND Auxiliary Power Pack is specifically designed for the user who must operate on battery power for long periods of time. The LIND Auxiliary Power Pack has a built-in charger that allows you to charge its battery from the 12 volt system in your car, van or boat as well as from 115 VAC power. It can also be recharged using the 7.5 VDC power from your Apple AC adapter. After overnight charging with any of the power sources, the APP-2 will provide enough power to operate most of your working day. The APP-2 contains a battery with 4 times as much power as the internal PowerBook battery. You can expect 4 times the operating time you normally get with the internal battery plus the charge contained in the internal battery.

Using the LIND Auxiliary Power Pack

To begin a recharge cycle, insert the output plug from your charging source into the appropriate jack on the Charging Power Input panel of the APP-2.

On the other end of the APP-2, place the mode switch in the charge position. The yellow CHG light will come ON indicating that charging power is available and the battery is charging.

The Green indicator will come ON when the battery is fully charged.

The APP-2 system is designed to charge a fully discharged battery overnight. The battery may be left on charge to assure a full charge when you need it with no risk of overcharging.

The MODE switch should be placed in the OFF position if power is removed from the charger to prevent slow discharge of the battery by the charging circuit over long periods.

A power cable is provided to connect the LIND Auxiliary Power Pack to the computer. Note that the two ends of the cable are different. The end marked with the red stripe is plugged into the Output jack of the APP-2 with the opposite end being plugged into the power jack of the PowerBook.

With the cable in place, move the MODE switch to the power position. The Yellow indicator will come ON to indicate that power is applied to the PowerBook.

The computer will operate just as it does with the Apple AC adapter plugged-in except that the computer will generate caution notices that the internal battery is not being charged. These notices and the battery power indicators may be ignored.

When the APP-2 battery is fully discharged, the red indicator will come ON and the APP-2 output will be switched OFF. You have approximately ten minutes of run time left on your internal battery when the APP-2 shuts down.

The battery low and shut down notices after the red indicator comes ON are appropriate.

The LIND Auxiliary Power Pack contains a 6 volt, Lead-Acid battery with over 10 ampere hours of power. The built-in charger is a two-step, constant voltage type which switches to float voltage at completion of full charge. A low voltage detection circuit switches the battery OFF when the battery is fully discharged.

Technical Information

INPUT VOLTAGE	- 11-14 VDC from standard lighter socket - 12 VAC from transformer - 7.5 VDC from Apple AC Adapter
OUTPUT VOLTAGE	- 6.5 VDC at up to 3 Amps
CHARGE TIME	- Full charge in 12 to 14 hours max
SIZE	- 7.5 x 4.5 x 2.5 inches
WEIGHT	- 5 lbs total with transformer
SYSTEM INCLUDES	- Main battery-charger unit - 12 VDC Input power cable with lighter socket plug - 115 VAC to 12 VAC transformer - Computer to APP-2 power cable
Fuses (2)	- 3 Amp AGE fast blow in auto plug - 5 Amp auto fuse on control panel

Caution

Keep the APP-2 plugged-in and the MODE switch on charge when not in use.

When storing the APP-2, store fully charged with the mode switch on OFF.

Recharge the APP-2 shortly after use.

Store and recharge in a cool environment to increase battery life.

**LIND™ Portable
Power Pack
Model APP-12**

The LIND Auxiliary Power Pack is designed for the user that must operate his laptop computer away from normal power sources for long periods. The APP-12 will supply enough power to operate the computer for *up to 8 hours**.

The APP-12 contains a 12 volt, 7 ampere hour sealed lead acid battery that may be recharged from a wide variety of power sources. Commonly used sources are 12VDC from an automobile or the output of the AC adapter that was provided with the laptop.

The output of the APP-12 is 12 VDC. This voltage must be converted to the voltage required by the computer with a 12 VDC (Automobile) Power Adapter. Lind has available suitable 12 volt adapters for most laptops currently in production. An automobile cigarette lighter receptacle adapter is included for interfacing the APP-12 output to the automobile style plug of the 12 VDC power adapter.

**Moderate use of power conservation techniques is assumed. Actual operating time can vary and is a function of the operating system, program in use, state of the internal battery, the power consumed by the CPU and other circuitry of the laptop computer being powered.*

Please read
Precautions & Usage Tips!!

1. Do not store the APP-12 in the discharged condition or allow it to discharge in storage. Place the output switch in OFF position when not in use.
2. Keep the power pack on charge when not in use. If this is not possible, recharge monthly.
3. Recharge the power pack battery shortly after use.
4. Store and charge the APP-12 in a cool place to increase battery life.
5. Use your APP-12 with your internal battery inserted to achieve longer run times and prevent loss of data if the battery cable is inadvertently disconnected or cuts off at discharge.

Technical Information

INPUT POWER	- 11-24VDC from a 12 volt (vehicle) power source or the AC adapter supplied with the computer. The input power jack is a 5.5 mm coaxial connector with a 2.5mm pin. If the computer's AC adapter meets this specification, it can be used. If it does not, a connector adapter will be needed. Call us for help. The AC power source must supply a minimum of 30 watts.
OUTPUT POWER	- 12 VDC at up to 3 amps directly from the battery.
CHARGE TIME	- Full charge in less than 6 hours.
SIZE	- 2.9 x 4.8 x 6.9 inches
WEIGHT	- 7 pounds
SYSTEM INCLUDES	- Power assembly in aluminum case. - A four foot 2.5mm to automobile lighter receptacle adapter.
SYSTEM OPTIONS	- Automobile charging power cable: 6 feet long. - AC charging power source: 12v @ 3a

Using the LIND Auxiliary Power Pack

Charging the Battery

The sealed lead acid battery in the APP-12 is charged when assembled at the factory but may be partially discharged in shipping and distribution. It should be charged when received and should remain on trickle charge when not in use if possible. If it is not on trickle charge, it should be recharged every 30 days to prevent long term self discharge damage to the battery.

- Insert the plug of a power source into the jack labeled INPUT POWER.
- The CHARGING light will light and remain lit until charging is complete.
- The CHARGE COMPLETE light will light when charging is complete.

A completely discharged battery will recharge in less than 6 hours. Charging is completed in three steps: Fast constant current to 70% (about 3 hours), constant voltage to 98%, trickle to 100% and maintenance. Leaving the battery on trickle charge when not in use is good for the battery.

Application of charging power inhibits the output of the APP-12. Operation when charging is not permitted because of input power limitations. If the battery is charged with the output switch ON, it may be necessary to cycle the switch from OFF to ON to reset the output power control circuitry.

Using Power

The APP-12 stores 84 watt hours of power (12 volts at 7 amp hours). Most 12 VDC power adapters are over 80% efficient, so 67 watt hours are available to power the computer. If the average power consumption of the laptop (with conservation) is 8 watts, up to 8 hours of operation will be possible from a fully charged battery. Additional operating time should be available from a fully charged internal laptop battery.

- Move the OUTPUT switch to the ON position. If it has been ON during charging, cycle the switch OFF to ON if needed to reset and illuminate the OUTPUT IN USE light.
- Plug the supplied lighter adapter cable into the APP-12 jack labeled OUTPUT POWER.
- Plug the Auto Power Adapter between the computer's AC input jack and the Power Pack.
- The APP-12 will supply power until the battery charge is depleted.
- Power will be abruptly cut off when battery is completely discharged. Low voltage cut-off protects the battery from over discharge damage.
- The OUTPUT IN USE light will go out when the output shuts off.

It is recommended that the internal battery of the computer be in place and fully charged when the APP-12 is used to prevent low voltage cut-off from unexpectedly shutting down the computer.

LIND™
Portable Power Pack
Model APP-240-1
Use with PowerBook™ iBook,
G3,3400,2400,1400 & Duo
Model APP-240-2
Use with PowerBook™ 190 & 5300 models.

The LIND Auxiliary Power Pack is designed for the user that must operate his Apple PowerBook away from normal power sources for long periods. The APP-240 will supply enough power to operate the computer for *up to 7 hours**. This will allow portable operation for up to 4 times as long as with the internal battery alone.

The APP-240 is a slim, lightweight NiMH rechargeable auxiliary power pack that may be recharged from a wide variety of power sources. The most commonly used source is the AC adapter that was provided with the PowerBook. An optional Universal Input Voltage (100-240VAC) AC adapter is available from Lind for charging from AC power and an optional DC cable is used to recharge the APP-240 power pack from an automobile.

The APP-240 provides an output of 24 VDC required for PowerBook operation. Lind's exclusive automatic Charger/Conditioner circuitry assures that the power pack will perform at it's peak, always delivering the maximum power to run your PowerBook.

**Moderate use of power conservation techniques is assumed. Actual operating time can vary and is a function of the operating system, program in use, state of the internal battery, the power consumed by the CPU and other circuitry of the PowerBook being powered.*

Using the LIND Auxiliary Power Pack
Charging the Battery

The NiMH battery pack in the APP-240 is charged when assembled at the factory but may be partially discharged in shipping and distribution. It should be charged when received to assure full operating time for the first use cycle. If the power pack is not used for long periods, it should be recharged every 30 days to prevent long term self discharge. The battery pack should be "topped off" before using if it has not been charged for over a week.

- Insert the plug of a power source into the jack labeled INPUT POWER.
- The CHARGING light will come ON and remain lit until charging is complete.
- The CHARGING light will Flash when charging is complete.
- The battery may remain on charge indefinitely without harm but the battery is not "trickle charged" after charging is complete.

A completely discharged battery will recharge in less than 5 hours.

Application of charging power inhibits the output of the APP-240. Operation when charging is not permitted because of input power limitations.

Using Power

The APP-240 stores 72 watt hours of usable power. If the average power consumption of the laptop (with conservation) is 10 watts, up to 7 hours of operation will be possible from a fully charged APP-240 battery pack. Additional operating time will be available from a fully charged internal battery.

- Move the OUTPUT SW to the ON position. If it has been ON during charging, cycle the switch OFF to ON to reset and illuminate the OUTPUT IN USE light.
- Plug the computer adapter cable into the APP-240 jack labeled OUTPUT POWER.
- The APP-240 will supply power until the battery charge is depleted.
- Power will be abruptly cut off when battery is completely discharged and the OUTPUT IN USE light will go out.
- The battery is "conditioned" each time it automatically shuts off at end of charge.

It is recommended that the internal battery of the computer be in place and fully charged when the APP-240 is used to prevent low voltage cut-off from unexpectedly shutting down the computer. An internal battery that is not fully charged will charge from the APP-160 and will waste power.

Precautions and Usage Tips

1. Place the output switch in OFF when not use.
2. Recharge the power pack battery shortly after use.
3. Store the APP-240 in a cool place to increase battery life and reduce long term self discharge.
4. Use the APP-240 with your internal battery inserted to achieve longer run times and prevent loss of data if the battery cable is inadvertently disconnected or the system cuts off at full discharge.
5. Use the APP-240 power pack to full discharge at least twice a month to condition the battery and prevent loss of capacity due to "memory effect".

Technical Information

INPUT POWER	- 24 VDC from the PowerBook AC adapter. 12 VDC from any source with over 35 watts capacity.
OUTPUT POWER	- 24 VDC at up to 2 amps. This output emulates the AC adapter output voltage. Total capacity: 72 Watt Hours.
CHARGE TIME	- Full charge in less than 5 hours.
SIZE	- .95 x 6.4 x 10 inches.
WEIGHT	- 3 pounds.
SYSTEM INCLUDES	- Main auxiliary battery-charger pack - A 4 foot power pack to PowerBook cable.
SYSTEM OPTIONS	
* Automobile charging power cable 6 feet long. #CAB-AU13	
* Spare AC adapter, universal input (100-240VAC) to recharge power pack or operate PowerBook. (#AC-24CX for PowerBook 1400 & Duo) (#AC-2413 for PowerBook 190 & 5300)	
* Replacement power pack output cable. (#CAB-25CX for 1400 & Duo) (#CAB-2513 for 190 & 5300)	



LIND Electronics, Inc.

6414 Cambridge St., Minneapolis, MN 55426

Tel: (952) 927-6303 Fax: (952) 927-7740

E-mail: lrind@lindelectronics.com

Internet: www.lindelectronics.com

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