

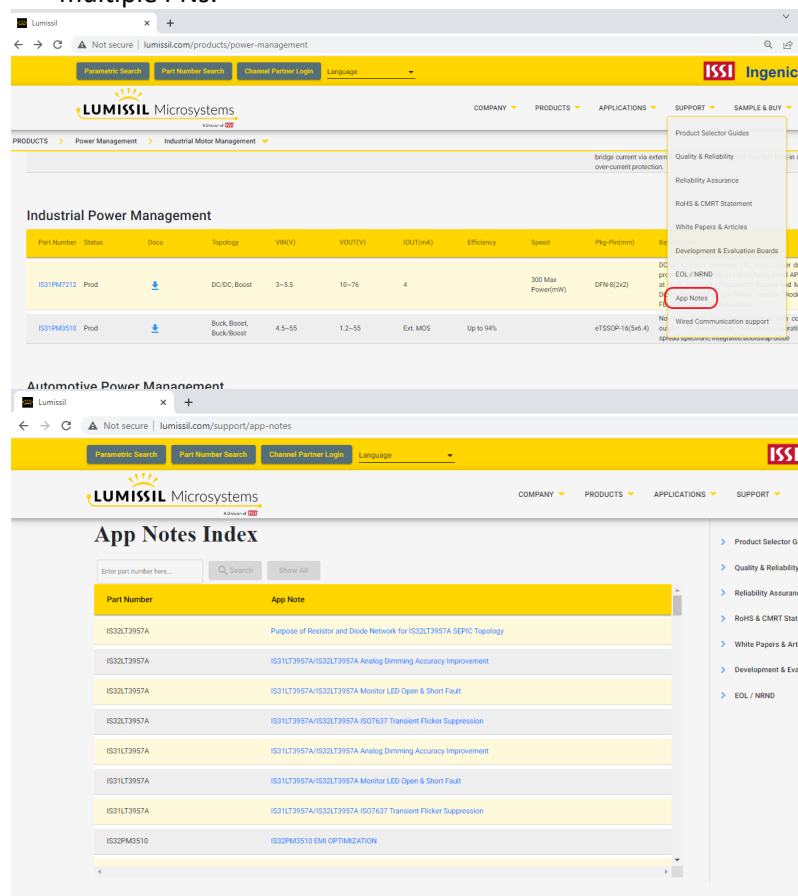
## New APPLICATION NOTES on Lumissil Website

Lumissil supports customers with dedicated application support as needed. We also release application notes (appnotes) that helps engineers with common questions. More appnotes will be added to Lumissil website soon. Take advantage of this additional resource to help support your customers.

There are a few ways to find application notes on Lumissil.com website.

Taking IS32PM3510 as an example:

1. From the Support menu, you can search for appnotes by part-number (PN) or browse through all available documents. Some appnotes are specific to a PN while others are generic and applicable to multiple PNs:



The image shows two screenshots from the Lumissil website. The top screenshot is the 'Industrial Power Management' product page. A 'SUPPORT' dropdown menu is open, highlighting the 'App Notes' option. Below the menu is a table of products:

Part Number	Status	Docs	Topology	VIN(V)	VOUT(V)	ISUT(mA)	Efficiency	Speed	Pkg (Pinmm)	Key
IS31PM7212	Prod	<a href="#">Download</a>	DC/DC, Boost	3-5.5	10-76	4		300 Max Power(mW)	DFN-R(2x2)	RoHS
IS31PM3510	Prod	<a href="#">Download</a>	Buck Boost, Buck/Boost	4.5-55	1.2-55	Ext. MOS	Up to 94%		eTSSOP-16(5x6.4)	RoHS

The bottom screenshot is the 'App Notes Index' page. It features a search bar and a table of application notes:

Part Number	App Note
IS32LT3957A	Purpose of Resistor and Diode Network for IS32LT3957A SEPIC Topology
IS32LT3957A	IS31LT3957A/IS32LT3957A Analog Dimming Accuracy Improvement
IS32LT3957A	IS31LT3957A/IS32LT3957A Monitor LED Open & Short Fault
IS32LT3957A	IS31LT3957A/IS32LT3957A IS07637 Transient Flicker Suppression
IS31LT3957A	IS31LT3957A/IS32LT3957A Analog Dimming Accuracy Improvement
IS31LT3957A	IS31LT3957A/IS32LT3957A Monitor LED Open & Short Fault
IS31LT3957A	IS31LT3957A/IS32LT3957A IS07637 Transient Flicker Suppression
IS32PM3510	IS32PM3510 EMI OPTIMIZATION

2. Alternatively, from the product page, you can use the “Linked App Notes” link which takes you to the support page mentioned above:

From the product listing page, you can access dedicated product’s page by clicking on PN

A Division of **ISSI**

Not secure | lumissil.com/products/power-management

Parametric Search | Part Number Search | Channel Partner Login | Language

**LUMISSIL Microsystems**  
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PRODUCTS > Power Management > Industrial Motor Management

### Industrial Power Management

Part Number	Status	Docu	Topology	VIN(V)	VOUT(V)
IS31PM7212	Prod	<a href="#">↓</a>	DC/DC, Boost	3~5.5	10~76
IS31PM3510	Prod	<a href="#">↓</a>	Buck, Boost, Buck/Boost	4.5~55	1.2~55

### Automotive Power Management

Part Number	Status	Docu	Topology	VIN(V)	VOUT(V)
IS32PM3510	Prod	<a href="#">↓</a>	Buck, Boost, Buck/Boost	4.5~55	1.2~55

The PN's product page will be opened in a new tab where the "Linked App Notes" will take you to the support page

Not secure | lumissil.com/applications/automotive/automotive-lighting/interior-lighting/interior-illumination/is32pm3510

Parametric Search | Part Number Search | Channel Partner Login | Language

**LUMISSIL Microsystems**  
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COMPANY > PRODUCTS > APPLICATIONS > SUPPORT

APPLICATIONS > Automotive > Automotive Lighting > Interior Lighting > Interior Illumination > IS32PM3510

## IS32PM3510

The IS32PM3510 is a non-synchronous 2-switch and single inductor constant on-time buck-boost controller with excellent constant voltage to drive high power loading from wide input voltage. With 150kHz~650kHz operating frequency which can be either adjusted by external resistor or synchronized by external PWM signal, the external inductor and capacitors can be small while maintaining high efficiency. The internal spread spectrum function achieves lower EMI. The IS32PM3510 can be configured as boost operation with one switch for lower BOM cost and higher efficiency. The device features robust protection functions with fault flag reporting to MCU.

The IS32PM3510 is available in eTSSOP-16 package.

#### FEATURES

- Wide input voltage: 4.5V to 55V
- Boost and Buck-boost configuration with constant-voltage output
- Up to ±1.5% output voltage accuracy
- Internal current sense for over current protection
- Spread spectrum to optimize EMI
- Adjustable operating frequency: 150kHz-650kHz
- Externally synchronizable switching frequency
- Internal soft start to avoid inrush current

Resources

- Data Sheet
- Eval Board
- Request Samples
- Buy Online

Product Selector Guide

[Download Free Copy >>](#)

App Note

[Linked App Notes](#)

lumissil.com/support/app-notes/is32pm3510

Parametric Search | Part Number Search | Channel Partner Login | Language

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COMPANY > PRODUCTS > APPLICATIONS > SUPPORT > SAMPLE & BUY

### App Notes Index

Enter part number here.

Part Number	App Note
IS32PM3510	IS32PM3510 EMI OPTIMIZATION

Product Selector Guides  
Quality & Reliability  
Reliability Assurance  
RoHS & CMRT Statement  
White Papers & Articles  
Development & Evaluation Boards  
EOL / NEND

**About Lumissil**  
Company  
Products  
Applications  
Careers at Lumissil

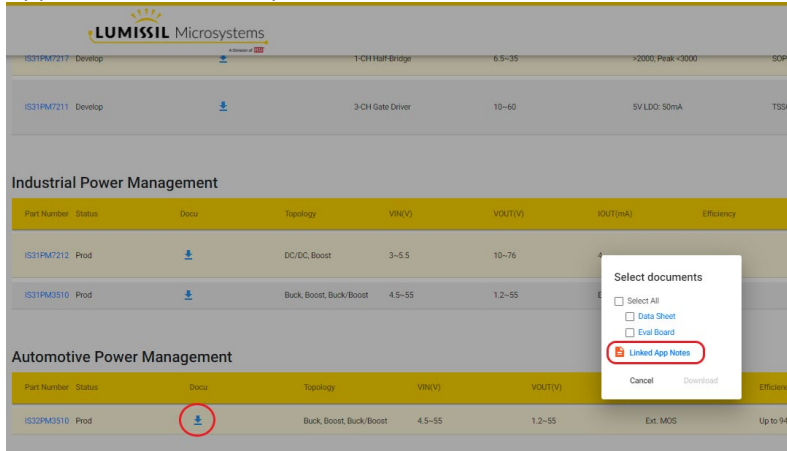
**Support**  
Product Selector Guides  
Quality & Reliability  
Reliability Assurance  
RoHS & CMRT Statement  
White Papers & Articles  
Wired Communication support

**Contact US**  
Office Locations  
Representatives  
Authorized Distributors  
Lumissil Sales Offices  
Development & Evaluation Boards

**News**  
Press Releases  
Videos  
Technology Show

- From each product's "Docu" link, you will be present with a menu of items for download. If the product has specific appnotes then you will be presented with "Linked App Notes" link which take

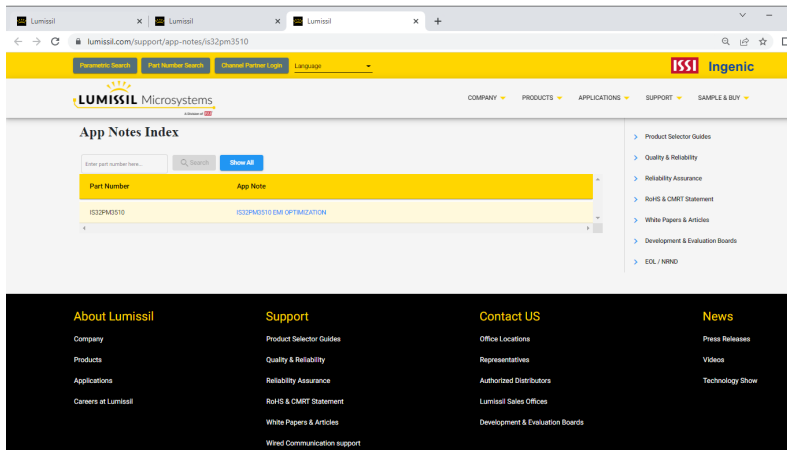
you to the support page. Note: there may be applicable generic appnotes even when the “Linked App Notes” link is not present:



The screenshot shows a table of products categorized under 'Industrial Power Management' and 'Automotive Power Management'. A modal window titled 'Select documents' is open over the row for part number IS32PM3510. The modal contains the following options:

- Select All
- Data Sheet
- Eval Board
- Linked App Notes**

Buttons for 'Cancel' and 'Download' are also visible at the bottom of the modal.



The screenshot shows the 'App Notes Index' page on the LUMISSIL website. The page includes a search bar with the text 'Enter part number here...' and a 'Show All' button. Below the search bar is a table with the following data:

Part Number	App Note
IS32PM3510	IS32PM3510 EM OPTIMIZATION

The page also features a navigation menu with categories like 'COMPANY', 'PRODUCTS', 'APPLICATIONS', 'SUPPORT', and 'SAMPLE & BUY'. A footer section contains links for 'About Lumissil', 'Support', 'Contact US', and 'News'.