Philips Xitanium
LED linear drivers
For today, for tomorrow
The lighting market is evolving, and we’re ready to help you benefit

LED technology has left the ‘good enough’ performance point far behind, and is well into a penetration phase where the cost, performance and energy saving benefits are widely accepted. The technology is far superior to conventional lighting, payback times are decreasing and volumes are growing fast. It’s time to embrace the next phase, where new features can be added, new form factors and lighting vehicles become possible, and new opportunities are created through digitalization and intelligence. These are the characteristics that will help you differentiate your solutions, and benefit from what connected lighting has to offer your customers.

Complete LED linear driver portfolio for OEM projects
Philips is ready to support you in OEM project business for office and industry applications with our complete Xitanium LED linear drivers portfolio. This portfolio is designed to enable you to offer a full pallet of lighting solutions characterized by reliability, flexibility and quality of light.
Complete portfolio
Xitanium LED linear drivers are designed for professional office, industry, retail and general lighting applications. The range comprises fixed-output, dimmable (1-10 V and Touch and DALI) and programmable (Touch and DALI) types.

Reliability
By drawing on our experience and knowledge of conventional fluorescent technologies, we’ve developed extremely reliable drivers that have a 100,000 hour life and a 5 year warranty. The drivers also enhance the reliability of your LED solutions thanks to integrated features – such as reduced ripple current and thermal derating – that protect the connected LED module against open load-, short-circuit- and over power protection. All LED linear drivers feature central DC operation and have DC emergency backup for emergency lighting.

Flexibility
As LEDs continue to increase in efficiency, new opportunities arise for OEMs. Application-oriented operating windows (workable areas for specific drivers) give the flexibility to provide the stable lumen outputs and light quality levels that are requested by lighting specifiers and architects. Another step forward in flexibility step is miniaturization, which gives OEMs more design freedom.

For this reason, we created a range of low profile 16mm and 11mm non-isolated DALI and Fixed Output drivers.

Quality of light
Philips places great importance on quality of light, and the driver has a critical role to play here. Our Xitanium LED linear drivers have very low output ripple (less than 4%) at both low and high frequencies, meaning virtually no interference or disruption of devices like cameras and scanners. Dimming is done using amplitude modulation rather than pulse-width modulation (PWM), which is a potential source of interference.

"Future-proof driver technology for reliability, flexibility and quality of light."
Quality that shines

We know that quality is one of the key factors that can make your business stand out. And by delivering reliable solutions you can also boost your reputation and encourage customer loyalty.

It’s the reason we’re placing even greater emphasis on the quality of our Xitanium LED linear drivers and modules. There are six areas in which this is most evident:

- **Quality lighting**
  Enhancing spaces, products and well-being

- **Quality assurance**
  Reliable, thoroughly-tested components

- **Quality innovation**
  World-leading connected lighting

- **Quality people**
  Guidance and inspiration from our industry experts

- **Quality support**
  Technical and operational backup, on and off-line

- **Quality leadership**
  Future-proof, standards-based solutions

Our ongoing focus on quality will enable you to offer high-value, reliable solutions. Together we can make sure your customers always have the right LED drivers.

Discover the Xitanium LED linear driver portfolio

Our Xitanium LED linear drivers constantly improved and the latest specifications further enhance the flexibility, reliability and quality of light. These improvements include:

- **New Operating windows** for non-isolated and isolated LED linear drivers to boost the efficiencies of your LED luminaires

- **Philips SimpleSet** wireless programming technology allows luminaire manufacturers to quickly program Xitanium LED linear drivers at any stage during the manufacturing process without a connection to mains power. This means you can meet orders faster, while reducing costs and inventory.

- **LEDset** addressing the interface standard for LED modules and LED drivers.

- **Miniaturization** for greater design freedom for OEMs. The portfolio includes LED linear drivers with 11mm (DALI non-isolated), 16mm (DALI and Fixed Output non-isolated drivers) and 21mm height (isolated and non-isolated iXt LED linear drivers). The length is also kept as low small as possible.

- **Low ripple output current** (less than 4%) to assure camera- and scanner-friendly performance.

- **Improved anti-glow-in-the-dark** specifications eliminating possible afterglow effects in DALI standby operation modes (for non-isolated systems only)

- **Amplitude modulated (AM)** dimming of Touch and DALI LED linear drivers for flicker-free and noise-free dimming.
Key features and benefits

Xitanium Linear LED drivers offer:

- Power ratings of 25, 35, 36, 40, 44, 52, 60, 75, 100, 150, 300 W
- Non-isolated and isolated drivers to support HV and LV linear office systems
  - HV systems for highest efficiency, lowest cost and smallest dimensions
  - LV systems for simpler approval process and ease of design in Non-isolated DALI and Fixed Output drivers with 11 mm and 16mm height
- Flexible programming of DALI drivers via MultiOne software
- Extra robust LED drivers for industry applications (iXt), with longer lifetime, wider temperature range plus higher surge specifications
- Flexible operating windows to simplify dynamic generation- and complexity management
- Low ripple output current for camera- and scanner-friendly performance
- Unique AM dimming in DALI drivers for flicker and noise-free dimming
- Complete range of Sensor Ready (SR) drivers for connected systems
The driver portfolio for third-party LED modules as well as Philips Fortimo LED modules

In addition for use with Philips Fortimo LED modules, Xitanium LED linear drivers can also be used with LED modules from other manufacturers or OEMs – even with own PCB designs (as long as the V/I setting fits the operating window). The output current within the operating window can be set in various ways:

- Programmed using the Philips MultiOne software via a DALI interface, or wirelessly via SimpleSet (for fixed output and DALI drivers).

- With a resistor outside the driver, which can be on the LED PCB (level 2 board), in the cable or in the connector (output) of the LED driver.

The relevant forward voltage (Vf) is determined by the number and type of LEDs used in the module or on the PCB. The min/max levels of the relevant operating window have to be respected in order to safeguard other driver specifications.

Linear office operating windows

Note that the relevant forward voltage (Vf) is determined by the number and type of LEDs used in the module or on the PCB. The min/max levels of the relevant operating window have to be respected in order to safeguard other driver specifications.
**Typical operating window**

Example of operating window. Can operate all points within window.
The Easy Design-in Tool

Create your ideal configuration in minutes. Design the optimal LED system in the fastest, most simple way.

The Easy Design-in Tool is a powerful, time-saving way to speed up the work of those who design or define LED systems. It’s a true solution composer and is ideal for all those involved in delivering added-value LED solutions right through the supply chain.

Check out our tool online!
Visit philips.com/easydesignintool

MultiOne and SimpleSet

The perfect match for simple, fast and wireless configuration

Configuring our portfolio of programmable indoor (point and linear) and outdoor drivers has never been easier! With our intuitive MultiOne configurator tool, you can configure a wide variety of functions in your lighting solutions. It is a must–have for applications where the lighting system needs to match specific requirements. Combined with the MultiOne SimpleSet Interface, this is a wireless solution. Depending on the driver type, a combination of features can be configured. With these features, you can create diversity and extra security, as well as cost–down improvements. MultiOne Basic is a stand–alone solution that offers quick and easy manual configuration of the LED current at any stage of production.

The benefits of our MultiOne Configuration Software and MultiOne SimpleSet Interface

✓ One multi–functional tool
You can program a luminaire, test it, configure it automatically in production, read out its status and do a complete quality analysis if there are returns from the field. All with one intuitive tool compatible with all Philips configurable drivers.

✓ Ultimate flexibility
Access to the features built into the driver offers you the flexibility to configure your drivers to match specific requirements. It enables optimization of installation, last minute changes, easy diagnostics and maintenance.

✓ Innovative
We bring innovation to your business by allowing you to wirelessly program all Xitanium LED drivers using our MultiOne SimpleSet technology.

For further information visit lighting.philips.co.uk/oem-emea/products/philips-multione-configurator
# Product and ordering information

## HV (non-isolated) LED drivers

### Sensor Ready (SR)

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### Sensor Ready (SR) - for industry applications

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### DALI dimmable and programmable - for industry applications

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### 1-10 V dimmable

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### Fixed output

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### Fixed output – for industry applications

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Xitanium and Fortimo – partners in performance

Luminaire performance is determined by the sum of its component parts, each carefully designed or selected to meet specific application requirements. In addition to the Xitanium LED drivers featured here, we also offer an extensive range of Fortimo LED lighting modules. Pair components from these complementary families and you’ll benefit from design-in simplicity, flexibility, compatibility and exceptionally long life. You’ll also enjoy the convenience of dealing with just one knowledgeable supplier of these vital luminaire components.
### LV (isolated) LED drivers

#### Sensor Ready (SR)

<table>
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<tr>
<th>Product name</th>
<th>Housing</th>
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#### DALI dimmable and programmable

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#### Single current drivers

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