The MultiOne Configurator

with *certified SimpleSet® Interface tooling*

Linda Janssens
LED Electronics
19-06-2015

SimpleSet®
'Simply touch
to configure'

PHILIPS

MultiOne Configurator with certified SimpleSet® interface

Content

- 1. Introduction
- 2. Product introduction
- 3. Basic blocks
    - 3.1. Software
    - 3.2. Interface
    - 3.3. LED system
- 4. Key applications
- 5. General Tips
- 6. Available info

1. Introduction

Configurable LED components and luminaires are needed

The **changing world** of lighting

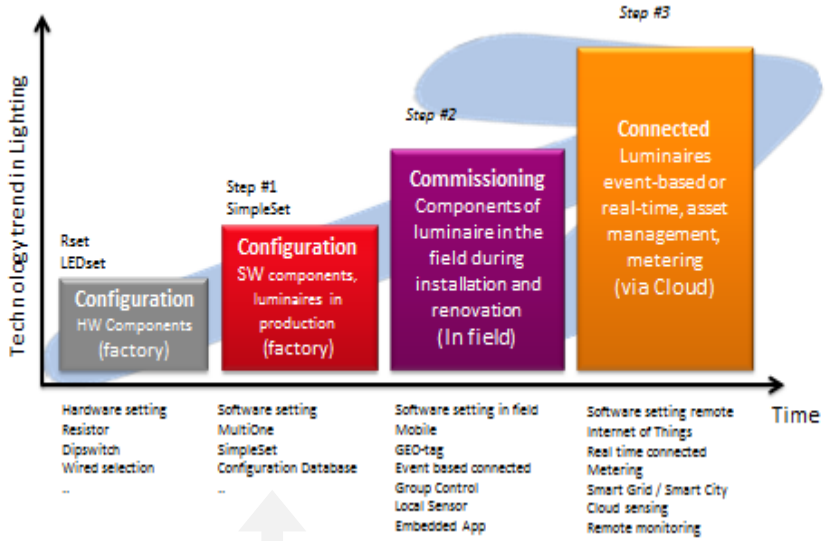
- transformation from conventional lighting technologies to LED
- Luminaire manufacturers all looking for differentiation

Configurability means the **freedom to set** OEMs own specifications

- From Current setting via resistor on driver,
- To configuration with DALI of a package of features

Simplify configuration in Development and Production environment

- **Wireless** configuration with SimpleSet®



PHILIPS

1. Introduction

Value proposition of our total solution

The MultiOne configurator with SimpleSet® technology helps in

- Easy (just touch and detect the product),
- Fast (configuration in seconds),
- Wireless (no connection of the driver to power or system needed)

Configurability

which makes luminaire manufacturing and logistics more

- Flexible (Flexibility of late stage or any stage configuration)
- Simple (less handling and production complexity)
- Cost-efficient (Reduced Supply Chain and Development complexity)

PHILIPS

2. Product introduction

Basic blocks

1.

+

2.

Engineering Sample

Certified for MultiOne

or

Certified for MultiOne

+

3.

or

PC with unique MultiOne Software

Certified SimpleSet® interface tool

Philips drivers with SimpleSet® Technology

PHILIPS

3. Basic blocks

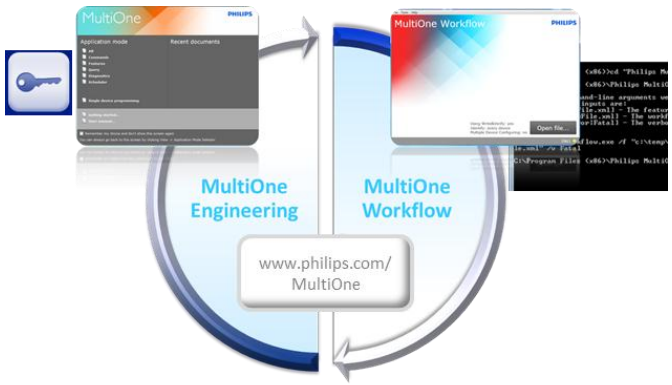
3.1. PC with our MultiOne Software

Laptop or PC with conditions:

- Microsoft Windows 7, Windows 8 or Windows 8.1
- One or multiple USB 2.0 port(s):
- At least 35 MB of free disk space
- *Using Windows Xp will be phased out end of 2015*

Software from website:

- Free download www.philips.com/MultiOne
- Software for different application (status on wk 25)
  - MultiOne Engineering 2.8
  - MultiOne Workflow2.1 / CommandLine
- Protected via User Software Key
- One software
  - all type of Interfaces
  - total product portfolio
- Automatic upgrade – new release wk 27



PHILIPS

3. Basic blocks

3.2. SimpleSet® Interfaces

SimpleSet® technology is based on

- **Wireless short range** proximity based communication technology
- Based upon **RFID technology** at 13.56 MHz
- Standardized by the **NFC Forum**, protocol according ISO 15693
- Operating distance typical **1 cm** (height)
- Response time **< 0,1 seconds** (quantity of commands)

Technology also used:

- Mobile payment
- Access control (door)
- Tickets for events, theatre,..

Functionality is influenced by:

- Tool, type of driver (each product will be released)
- Material in the environment (table) or of the luminaire, driver, ..(metal housing)
- Driver with power on/off

3. Basic blocks

3.2. Certified SimpleSet® Interfaces

Tooling :

- Expertise in configuration of drivers, no specialist in tooling for scanning

- **Professional complementary partner** for this type of tooling -> **FEIG**
- 2 tools of FEIG are released for the portfolio of SimpleSet® drivers

  -> **certified for MultiOne SimpleSet®**

Certified SimpleSet® Interface tool	Philips 12 nc = FEIG code	Philips name = Feig name	Remark
	9290 009 99400	LCN 9610 MultiOne interface SimpleSet®	Tool based on the standard tool of FEIG ref **ID ISC.PRH101-USB HF** specific adjusted for Philips
	9290 009 99500	LCN9620 MultiOne interface SimpleSet®	Tool based on the standard tool of FEIG ref **ID CPR30-USB HF** specific adjusted for Philips

3. Basic blocks

3.2. Certified SimpleSet® Interfaces

Tooling :

- FEIG Information will be add in our website www.philips.com/MultiOne
  - Technical documentation, link to FEIG website, order information…

- Ordering direct at FEIG
  - Contact person : kschoeke@feig-electronics.com/Sales@feig.us
  - Central order location @ US, Development @ Germany
  - Order information docs included in presentation
  - Product code = Philips code (due to change control)
    - Supplied with a (fixed) USB cable.
    - Order quantity starting from 1 pcs (individual packed)
    - Small quantities (<10 pcs) : delivery time < 4 wks

- Warranty 12 months (FEIG statistic <0.02 % failure)

FEIG ELECTRONICS

FEIG-ELECTRONICS, Inc.
2220 Northmont Parkway
Suite 250
Duluth, GA 30096
Tel: (770) 491-8060
Fax: (678)-417-6273
www.feig-electronics.com

Only order the FEIG tools with the Philips code to prevent issues with the installation

PHILIPS

3. Basic blocks

3.2. Philips SimpleSet® Interface

Tooling :

- The Philips LCN9600 MultiOne SimpleSet® interface tool
- Engineering Sample
- Only use for testing of drivers
- Request for sample via local sales representative
  - Supplied with a fixed USB cable from the Philips headquarter
  - Limited numbers
  - Individual packed
  - No cost

We will keep the *LCN9600 MultiOne SimpleSet® interface* only available in 2015, (as engineering sample) for customers (first testing) or internal purpose (demo).

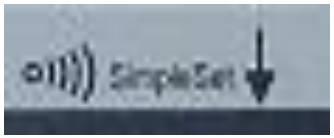
PHILIPS

3. Product introduction

3.3. Xitanium drivers with SimpleSet® technology

Drivers:

- SimpleSet® Technology included in the drivers (indoor & outdoor)
- Recognisable by the SimpleSet® symbol – position of the touch zone
- Depending on type of driver :
  - Position of the antenna
  - Feature configuration : AOC or full feature-set and diagnostics
  - Housing (metal / plastic)
  - Combination of Rset / SimpleSet® Technology / DALI



Configuration of:

- Component (driver)
- Subassembly (driver + LED module)
- Luminaire (open luminaire)

Condition :

- Antenna in reach of the tool
- No metal/signal interference on the workstation
- No power on the driver

PHILIPS

4. Key application

4.1 Basic set up

- Tool connected with MultiOne PC via USB, “naked driver”
- Quick configuration in seconds of time
- Robust, quick, easy *single* programming
- Implemented in both software packages
- Tool only used for configuration (and diagnostics) not for DALI communication

PHILIPS

4. Key application

4.2 Integrated set up

Development/Quality

MultiOne Engineering

- Easy and quick settings of features
- Quick quality check
- Handy rework

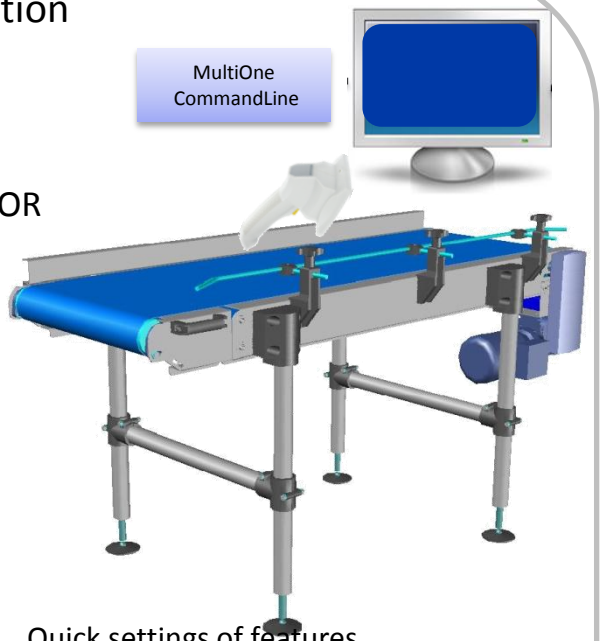
Production

MultiOne workflow

- Easy and quick settings of features
- Handy rework
- Pre- configuration

AND/OR

MultiOne CommandLine



- Quick settings of features
- Integration in existing station via CommandLine
- Configuration during assembly or in test station

PHILIPS

5. Starting up

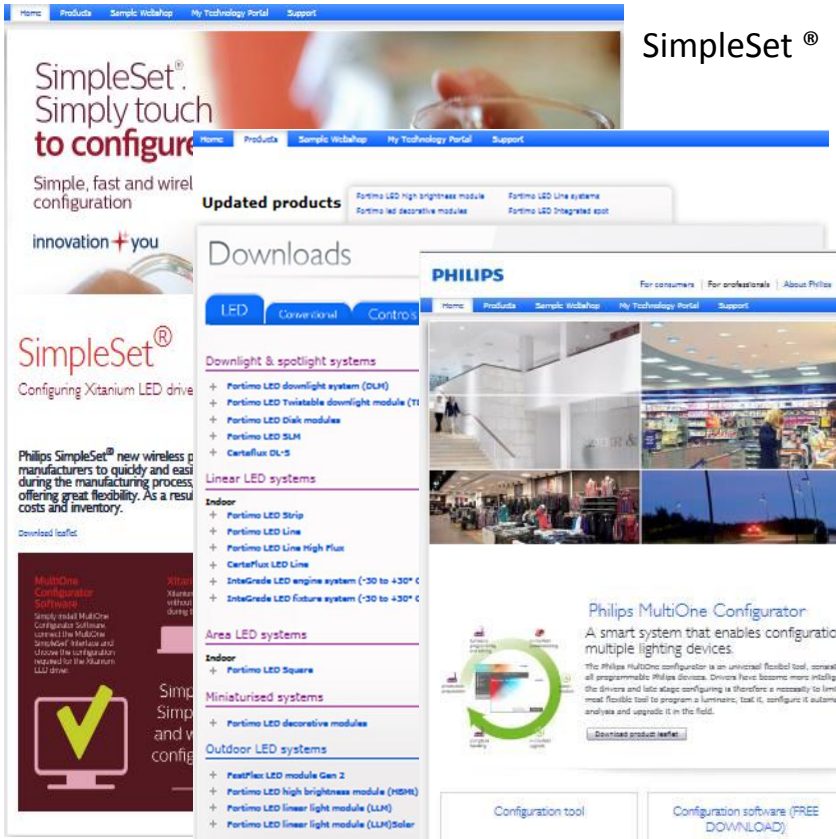
Tips

- Download **the latest software** from the website www.philips.com/MultiOne
- Be sure you have a **User Software Key** installed
- Before starting MultiOne configuring, **connect a tool** to the PC.
- After starting up always **select the correct connection settings**.
- Scanning for device, will not work if the **driver and tool** are not **in each other reach**
- During scan device in production , do **not shuffle the driver on the tool** (give an error)
- If **no information** is shown in the tab “Devices Features” and “Diagnostics” , press the **READ** button - After changing the feature, press **WRITE** button
- When saving the created file also mark **the “type of driver”,** in the workflow this will be checked. Be aware that old files will not be able to check this.
- After downloading file in production , **automatic scan (with beep**) will happen while using tool with **workflow** software

PHILIPS

6. Available info

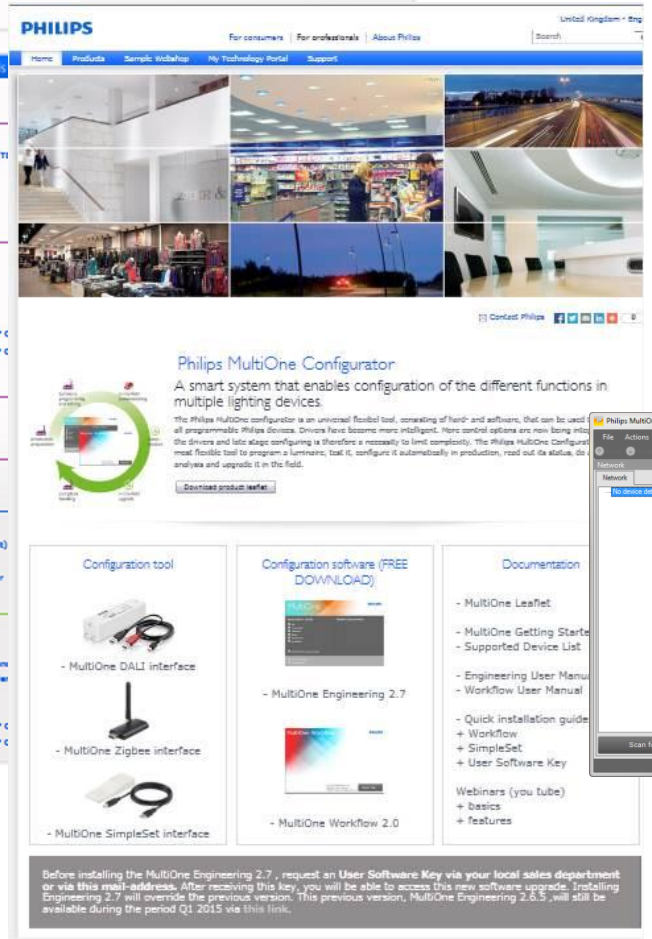
websites/software



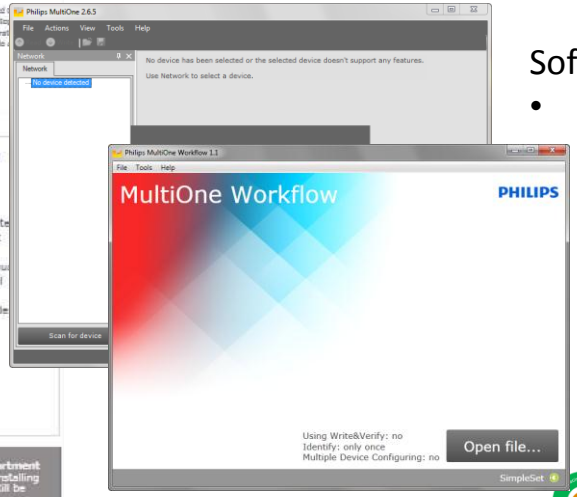
SimpleSet ®

[OEM website]

Technical download page



- MultiOne software
- Manuals
- Quick installation guides
- User Software Key
- Interface tools



Software

- help function

PHILIPS

PHILIPS

Specifications

OBID®
Welcome to RFID

OBID i-scan® HF

HF Handheld Reader
ID ISC.PRH101-A / PRH102-B / PRH101-USB

FEATURES

- Variable interfaces (RS232, USB, Bluetooth)
- Anti-collision function
- Multi-tag reader for ISO15693 and ISO18000-3
- 2 operation modes: FEIG ISO Host Mode & Scan Mode

SHORT DESCRIPTION

The handheld readers ID ISC.PRH101/102 are designed for contactless data exchange with common ISO 15693 transponders. They can be used for those applications, read ranges up to 13cm* (PRH102-B) resp. up to 20cm* (PRH101-A/-USB) are required.

Due to different interfaces the handheld readers can be integrated in existing systems easily. So they are suitable for several applications in retail, logistics and industry.

The anti-collision function allows the handheld readers identification of up to 30 transponders simultaneously. With a switchable voltage on the antenna line a LED located in the antenna can be operated.

For programming host applications on mobile devices FEIG offers DLLs for different systems like Pocket PC, CE3.0, CE.NET, Windows-, Linux- and Java systems.

*Read range depends on the transponder size. Here made statements relate to an inlet size of 76 x 45 mm

ORDER DESCRIPTIONS

ID ISC.PRH101-A	HF Handheld Reader; RS232 (with 2.5 m interface cable)
ID ISC.PRH102-B	HF Handheld Reader; Bluetooth
ID ISC.PRH101-USB	HF Handheld Reader; USB 2.0 (with 2.5 m USB cable)
ID NET.5V-B	5V power supply for ID ISC.PRH101-A
ID CHA.NiMH-A	Battery Charger for ID ISC.PRH102-B

TECHNICAL DATA

Dimensions (W x H x D)	230 mm x 100 mm x 80 mm
Weight	320 g (without batteries)
Housing	Plastic ABS
Protection class	IP 30
Color	RAL 9002 / RAL 7044
Operating frequency	13.56 MHz
Transmitting power	0.5 W ± 2 dB
Supply voltage	
- ID ISC.PRH101-A	5V DC +/- 0,2V regulated
- ID ISC.PRH102-B	4 Mignon cells 1,2-1,5V AA
- ID ISC.PRH101-USB	USB High Powered Interface
Current consumption	maximum 0.5 A
Power consumption	maximum 2.5 VA
Antenna	integrated
Interfaces	
- ID ISC.PRH101-A	RS232
- ID ISC.PRH102-B	Bluetooth (Serial port profile)
- ID ISC.PRH101-USB	USB (12 Mbit)
Address setting for interface	
- ID ISC.PRH101-A	Software (up to 254 addresses)
- ID ISC.PRH102-B	Bluetooth MAC address
- ID ISC.PRH101-USB	Device-ID of the reader
Signal generator, optical	1 LED (multicolored)
Signal generator, acoustic	buzzer
Supported transponders	ISO 15693 (ISO 18000-3 MODE 1)*
Protocol modes	ISO Host Mode, Scan Mode
Temperature range	
Operation	0 °C up to 50 °C
Storage	–20 °C up to 70 °C
Relative humidity	5…95 % (not condensing)

* e.g. EM HF ISO Chips, Fujitsu HF ISO Chips, IDS Sensor Chips, Infineon my-d, KSW Sensor Chips, NXP I-Code, STM ISO Chips, TI Tag-it

STANDARD CONFORMITY

Radio licence	
Europe	EN 300 330
USA	FCC 47 CFR Part 15
Canada	IC RSS-GEN, RSS-210
EMC	EN 301 489
Safety	
Low Voltage	EN 60950
Human Exposure	EN 50364
Vibration	EN 60068-2-6 10…150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 acceleration: 30 g

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
State of information: June 2012.

FEIG ELECTRONIC

FEIG ELECTRONIC GmbH · Lange Straße 4 · D-35781 Weilburg
Tel.: +49 6471 3109-0 · Fax: -99 · E-Mail: OBID@feig.de · www.feig.de

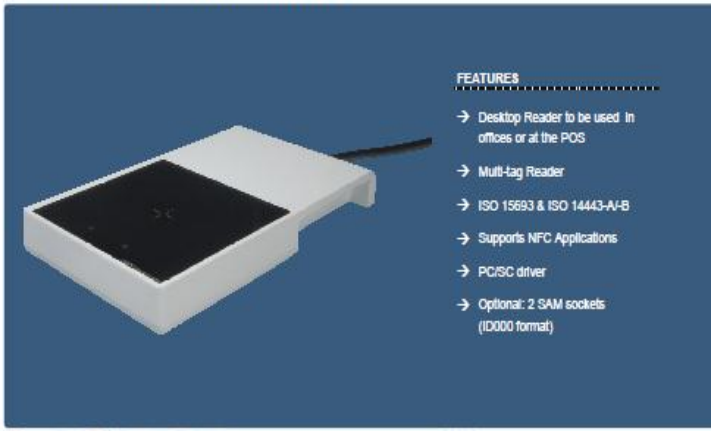
PHILIPS

Specifications

OBID®
Welcome to RFID

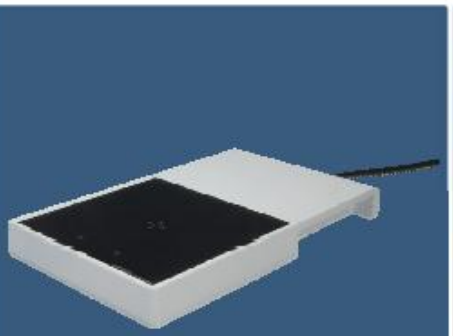
OBID® classic-pro

Desktop Reader
ID CPR30-USB (13.56 MHz)



FEATURES

- Desktop Reader to be used in offices or at the POS
- Multi-tag Reader
- ISO 15693 & ISO 14443-A/-B
- Supports NFC Applications
- PC/SC driver
- Optional: 2 SAM sockets (ID000 format)



TECHNICAL DATA

Dimensions (W x H x D)	144 mm x 84 mm x 18 mm
Housing	Plastic (ABA) / acrylic glass
Colour	white / black
Weight	about 105 g
Enclosure rating	IP 42
Operating frequency	13.56 MHz
Transmitting power	100 mW
Power supply	5 V, USB Bus powered
Power consumption	max. 150 mA
Supported transponders	ISO 15693, ISO 14443-A*/** ISO 14443-B**
Operation mode	Polling-Mode
Antenna	integrated
Interface	USB Full Speed (12 MBit/s)
Indicators, optical	2 LED (green / orange)
Indicators, acoustic	Buzzer, integrated
Temperature range	
Operation	–20 °C up to 60 °C
Storage	–40 °C up to 85 °C
Relative humidity	95 % (non-condensing)

* mifare® classic (only UID), mifare® UltraLight, NFC: Type 2 and Type 4 in Read/Write and NFC Card Emulation Mode
** ISO14443-4 fully supported

SHORT DESCRIPTION

Order description **ID CPR30-USB**

ID CPR30-USB is designed as a desktop device for contactless data exchange with common ISO 15693 and ISO 14443-A/-B compliant transponders.

Power supply and data exchange with a computer or other equipment is carried out via the USB interface.

Optionally, the reader is available with 2 SAM sockets.

Delivery:
- Desktop Reader ID CPR30-USB
- USB cable (A – Mini B plug)
- Mounting instruction
- Access data for download area

PC/SC driver and OBID® USB driver:
- Windows® 2000 SP4
- Windows® Server 2003
- Windows® XP SP2
- Windows® Vista 32/64 Bit
- Windows® 7 32/64 Bit

STANDARD CONFORMITY

Radio license	
Europe	EN 300 330
EMC	EN 301 489
Safety	
Low voltage	EN 60950
Human Exposure	EN 50364
Environment	WEEE – 2002/96/EC RoHS – 2002/95/EC

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
Stand of information: March 2011.

FEIG ELECTRONIC

FEIG ELECTRONIC GmbH · Lange Straße 4 · D-35781 Weilburg
Tel.: +49 6471 3109-0 · Fax: -99 · E-Mail: OBID@feig.de · www.feig.de

PHILIPS

FEIG

FEIG ELECTRONICS

FEIG-ELECTRONICS, Inc.
2220 Northmont Parkway
Suite 250
Duluth, GA 30096
Tel: (770) 491-8060
Fax: (678)-417-6273
www.feig-electronics.com

SunTrust Bank
Address: 3480 Braselton Highway
Dacula, GA 30019

Routing Number: 061000104
SWIFT Code: SNTRUS3A

Account Number: 1000107955808

PHILIPS

FEIG Electronics Inc.

FEIG

Credit Card Authorization Form

Company Name: _____

Phone : ___-___-_____ Fax ___-___-_____

Credit Card: VISA ___ MC ___ AMEX ___

Card Number: _____

Expiration Date: Month_____ Year ____

Security Code: _____ (on back of card)

Card Holder Name: _____

I authorize FEIG Electronics Inc. to charge my credit card as follows:

Amount: $_____ Invoice#:_____
Plus S/H if applicable

Additional invoices, special notes or see attachment:

Authorized Signature: _____

Date: __/__/__

Fax to: 678.417.6273 or e-mail back to jjean@feig-electronics.com

FEIG Electronics Inc.
2220 Northmont Parkway, Suite 250
Duluth, GA 30096
Tel: 770.491.8060

PHILIPS