

## Gigabit PoE Splitter



### 1. INPUT :

1.1 Input Voltage: DC40V to DC60V

NORMAL=56V

1.2 Under Voltage Lockout: DC 31 ~ 32V Stare Voltage =-33V ~ 35.5V

### 2. OUTPUT :

#### 2.1 Output Voltage & Current:

Model	2010886	20100887	20100888
OUTPUT	+5V	+12V	+24V
Max. load	5A	2.1A	1.1A
Power	25W Max	25W Max	25W Max
Min. Load(2)	0.1A	0.1A	0.1A
Load reg. %	5%	5%	5%
Line reg. %	1%	1%	1%
Ripple %(1)	1%	1%	1%
Noise %(1)	5%	5%	5%

TOTAL POWER : 25W

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz. Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

Note 2: to match up PSE

3. EFFICIENCY : 86% min @-48Vin dc

### 4. PROTECTION

#### 4.1 Short Circuit Protection

output Short GND Terminal will not damage the Power Supply and will Auto-Reset.  
Over Load Protection is auto-recovery.

4.2 Operation frequency is 150KHZ

4.3 Isolation Voltage : 1500Vdc

4.4 Isolation Resistance :100M ohms (min)

4.5 Input Set class Resistance : 25K ohms

4.6 Maximum Capacitive Load : 470UF (24V = 100UF)

4.7 Green LED indicates work as 802.3at Model.

RED LED indicates work as 802.3af Model

## 5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -40 - +70C
- 5.2 Storage Temperature: -40 - +85C
- 5.3 Operation Humidity: 5% - 90% non-condensing
- 5.4 Cooling: Free air cooling
- 5.5 SIZE : 85\*78\*36 (L\*W\*H)m/m (include bracket)

## 6. CONNECTORS & PINOUT DEFINITION:

### 6.1 Power-Hub RJ45 Input Socket (per channel) data & Power-Connected to DTE

RJ-45 Input (Data & Power)		
Pin	Symbol	Description
1	BI_DA+, Vin A+/-	Data Pair A+, Feeding power A+/-
2	BI_DA-, Vin A+/-	Data Pair A-, Feeding power A+/-
3	BI_DB+, Vin A+/-	Data Pair B+, Feeding power A+/-
4	BI_DC+, Vin B+/-	Data Pair C+, Feeding power B+/-
5	BI_DC-, Vin B+/-	Data Pair C-, Feeding power B+/-
6	BI_DB-, Vin A+/-	Data Pair B-, Feeding power A+/-
7	BI_DD+, Vin B+/-	Data Pair D+, Feeding power B+/-
8	BI_DD-, Vin B+/-	Data Pair D-, Feeding power B+/-
9	Shield	Connector shielding

### 6.2 Power Output & Data -Connected to DTE

RJ-45 Output (only Data)		
Pin	Symbol	Description
1	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+
5	BI_DC-	Data Pair C-
6	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+
8	BI_DD-	Data Pair D-
9	Shield	Connector shielding

Note : 1. the model is isolated design, the output +/- or input +/- can be shorted to ground (FG).

- 7. E M I      Meet FCC Class B Radiation standard  
                  Meet EN55022 Class B Radiation standard



TPS23754  
TPS23754-1  
TPS23756

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## High Power/High Efficiency PoE Interface and DC/DC Controller

Operating junction temperature range, $T_J$	-40	125	°C
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## SN431/SNF431

Programmable Voltage Reference

Operating temperature range	$T_{opr}$	-40 ~ +85	°C
Storage temperature range	$T_{stg}$	-55 ~ +150	°C



## LITE-ON ELECTRONICS, INC.

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Operating Temperature	$T_{opr}$	-55 ~ +100	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C
*2 Soldering Temperature	$T_{sol}$	260	°C