E00283
TECHNICAL DATASHEET
AMBRA SOLUTIONS POE VHDC, WITH OV PROTECT

Ambra solutions

This module provides power to passive PoE Ethernet equipment and transforms non-PoE capable devices into 802.3at/af compliant equipment. Its monolithic design ensure reliability and roughness to meet the worst automotive and industrial requirements. The DC connector allows an easy and quick harness integration. Critical devices can be power using multiples simultaneous power inputs.
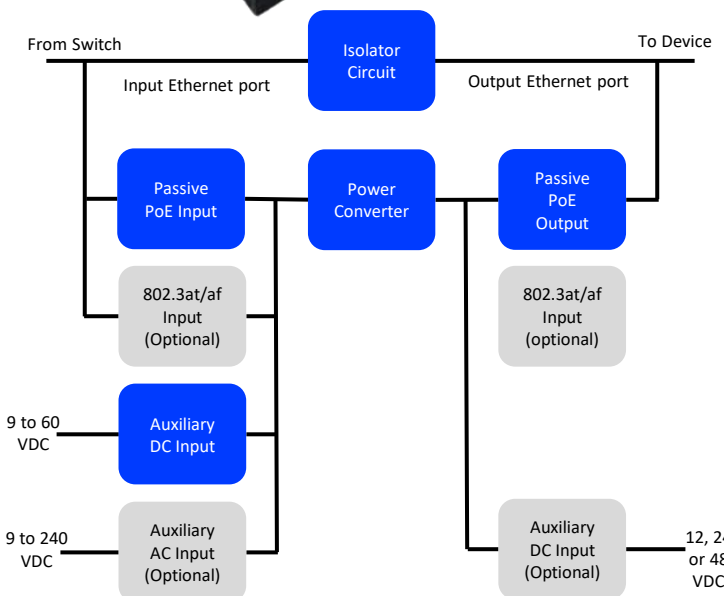*** Available as an option**

GENERAL SPECIFICATIONS

Circuit Topology	Daisy chained with load
Ethernet ports	2 ports (switch and device port)
Auxiliary port	1x DC IN / DC OUT*

POWER OUTPUT

Default PoE type	Passive, over data Phantom Power
Default powered pair (M12)	Factory selected pins +7,8 and -5,6
Output voltage*	12*, 24 or 48* VDC
Auxiliary output*	Selected output voltage*
Output power budget	Up to 40W limited by input source
Protection	Current limit, over temperature, short

POWER INPUT

DC input	9 to 60 VDC
AC input* (External Adapter)	90 to 240 VAC*
Default PoE input*	Passive 24 to 60 VDC on any pair*
PoE+ Input*	IEEE 802.3af and 802.3at compatible*
Protection	Overvoltage, transients, load dump

Interface	10/100/1000 Mbps
Protection	Surge on communication lines
Protocol	Ethernet pass through
Configuration	Factory configured, plug and play

Diagram:

From Switch — Isolator Circuit — To Device
Input Ethernet port | Output Ethernet port
Passive PoE Input | Power Converter | Passive PoE Output
802.3at/af Input (Optional) | 802.3at/af Input (optional)
9 to 60 VDC — Auxiliary DC Input
9 to 240 VDC — Auxiliary AC Input (Optional)
Auxiliary DC Input (Optional) — 12, 24 or 48 VDC

ENVIRONMENTAL AND PHYSICAL

Operating	-40°C to 85°C
Storage	-40°C to 85°C
Waterproof protection	Complete, IP67

Enclosure Dimensions	4.6" x 3.9" x 1.1" (117mm x 100mm x 28mm)
Connectors	4 positions DC connector, M12 X-coded
Enclosure fixations	2 x 3/16" holes

ORDERING INFORMATION

Product number	Description
E00283	PoE VHDC, with OV protect

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