Gigabit Ethernet passive PoE injector and splitter

Compatibility: CFIP Lumina, Integra, FreeMile 5 GE MIMO

Splitter P/N: I0ATPS03   Splitter P/N: I0ATPS04   Injector P/N: I0ATPI22

Features

- Input voltage as low as 24 V DC and up to 60 V DC
- Inbuilt PoE controller, complies with IEE802.af, IEE803.at and PoE++.
- 1000 Base-T Ethernet
- Cat5e and Cat6 compatibility
- Lightning and surge protection on all lines
- Surge voltage protection from improper grounding
- Tested compliance to IEC 61000-4-5
- Weatherproof (splitter)

The I0ATPI22 is an indoor Power over Ethernet injector and I0ATPS03/04 is an outdoor weatherproof Power over Ethernet splitter. Both units are used together in setups with CFIP Lumina FODU, providing Gigabit Ethernet and power via single Ethernet cable (Cat5e or better). Instead of running two separate cables for power and Ethernet, this solution allows to run just one cable from inside equipment to the radio outside. I0ATPS04 version differs from I0ATPS03 with already installed 1 m long cables. In setups with Integra radio only the PoE injector is used.

The PoE injector and splitter both have a built-in lightning and surge protection preventing transient over-voltages from damaging radio and user's indoor equipment. The injector is protected against reversed polarity.

The injector has a built-in DC/DC converter, which by default is switched on. In this mode input voltage can vary from 22 to 60 V, but on the output it will be stabilized to 54 V. DC/DC mode has an overcurrent and short circuit protection. It is designed to diminish the negative influence of long cable or insufficient input voltage from power supply. The DC/DC converter can be switched off and output voltage will be the same as input. We recommend using the default mode with DC/DC converter switched on.

Inbuilt PoE controller complies with the latest high power standards. By default it is switched off to work also with devices which don't support this standard.

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Electrical Specifications

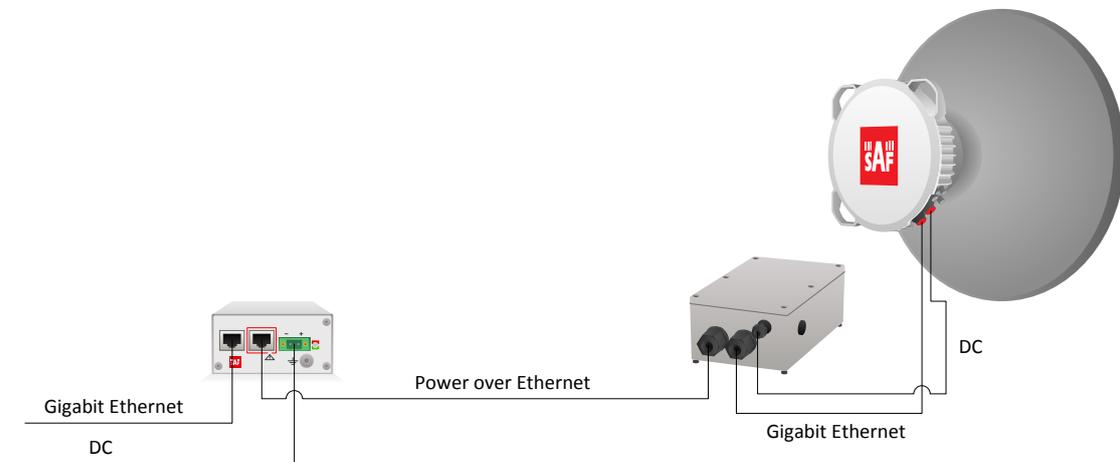|	
Data rate	Up to 1000 Mb/s
DC/DC Mode (default)	Red indicator LED on injector
Nominal Voltage	22 − 60 V
Maximum Voltage	54 V
DC/DC Off	Green indicator LED on injector
Input Voltage	48V
Output Voltage	60 V
Max Current	1.5 A
Power Connector	2ESDV-02P with screw locks
Ethernet Connectors	Shielded RJ45 jacks
Data Lines	Pins (1, 2), (3, 6), (4, 5) and (7, 8)
Power Lines	+ (1, 2) and (3, 6); - (4, 5) and (7, 8)
Power Clamping Voltage	+/- 70 V
Max data cable length	100 m

Mechanical Specifications

	Injector	Splitter
Ports	-RJ45 - Data -RJ45 - Data + Power -DC - 2ESDV-02P socket with screw locks* -Grounding screw	-RJ45 - Data -RJ45 - Data + Power -DC socket with screw locks
Dimensions (W/H/D):	82 mm/41 mm/154 mm	120 mm/79 mm/223 mm
Weight	0.4 kg	1.2 kg
Enclosure	Steel	Aluminium
Operating Temperature	-10ºC to + 50ºC	-40ºC to + 70ºC
Mounting	-With bracket (included) -19" rack mounting shelf (p/n I0KTPI11.003) -DIN-rail clip (p/n I0STPI11.01)	-Wall mounting brackets (included) -Mast mounting brackets (included)

* - 2ESDV-02P plug with screw locks included.

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Installation Diagram

Gigabit Ethernet

DC

Power over Ethernet

DC

Gigabit Ethernet

Accessories and PoE splitter variations

PoE splitter variations	p/n
PoE splitter with mast mounting brackets.	I0ATPS03
PoE splitter with mast mounting brackets, Ethernet, power and grounding cables.	I0ATPS04

Accessories	p/n
FTP Cat5e outdoor cable for PoE splitter, 1 m	I0CTPE01
Power cable with Lumina's hermetical power plug, 1 m	I0CTPP01
Grounding cable, 1 m	I0ACGD01
Mast mounting brackets. Fitting range 35 − 130 mm.	I0STPS03.002

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