



Gigabit Ethernet universal programmable PoE injector

Compatibility: CFIP Lumina / Integra / Integra-S / Integra-W / Integra-WS / SAF FreeMile 5 GE / SAF FreeMile 17 / SAF FreeMile 24 / CFIP-106 / CFIP-108

Product P/N
I0ATPI44



Features

- Input voltage as low as 20 V DC and up to 65 V DC
- Built in PoE controller, complies with IEEE 802.3af, IEEE 802.3at and PoE++.
- 1000 Base-T Ethernet
- Cat5e and Cat6 compatibility
- Lightning and surge protection on all lines
- Surge voltage protection from improper grounding
- Auto PoE++ mode as factory default
- Manual modes with four current limits switchable: 0.75, 1.0, 1.25 and 1.7A
- Tested compliance to IEC 61000-4-5

The I0ATPI44 is an indoor Power over Ethernet injector. It provides Gigabit Ethernet and power via single Ethernet cable (Cat5e or better). This solution allows running just one cable from inside equipment to the radio outside instead of using two separate cables for power and Ethernet. For CFIP Lumina radios it must be used together with PoE splitter.

The PoE injector has 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 is always active, thus input voltage can vary from 20 to 65 V, but it will be stabilized to 54 V on the output. Device 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 injector has a built-in PoE controller, which complies with the latest high-power standards. PoE controller's factory default mode is Auto PoE++ but four Manual modes are also available. Output current is PoE controller limited to 0.75, 1.0, 1.25 and 1.7A in Manual modes. Additional one, Forced mode ensures highest output current, up to 2.0A. PoE controller does not operate and LED indications are less informative in Forced mode, therefore we recommend using this mode in exception cases only.



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Electrical Specifications

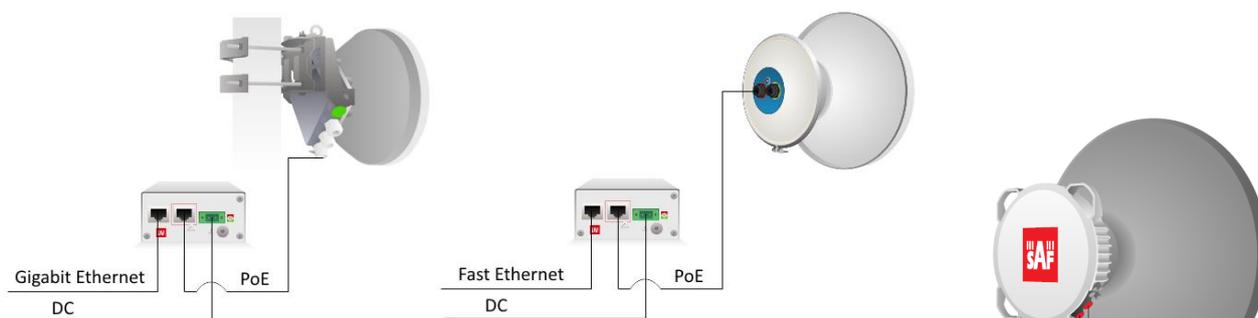
Data rate	Up to 1000 Mb/s
DC/DC Mode	Always active
Input Voltage	20 – 65 V
Output Voltage	54 V
Max Output Current in Auto PoE++ mode	1.2 A (U _{IN} 22...36V DC) 1.6 A (U _{IN} 36...60V DC)
Switchable Current limits in PoE Manual modes	0.75, 1.0, 1.25 and 1.7A
Current limit in Forced mode (not recommended)	2.0 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 (4, 5); - (3, 6) and (7, 8)
Power Clamping Voltage	+/- 70 V
Max data cable length	100 m

Mechanical Specifications

Ports	RJ45 - Data RJ45 - Data + Power DC - 2ESDV-02P socket with screw locks* Grounding screw
Dimensions (W/H/D):	82 mm/41 mm/154 mm
Weight	0.4 kg
Enclosure	Steel
Operating Temperature	-10°C to +50°C
Mounting	With bracket (included) 19" rack mounting shelf (p/n IOKTPI11.003) DIN-rail clip (p/n IOSTPI11.01)

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

Interconnection schemes with Integra / Integra-S / Integra-W / Integra-WS / SAF FreeMile 5 GE / SAF FreeMile 17 / SAF FreeMile 24 / CFIP-106 / CFIP-108:



Interconnection scheme with CFIP Lumina (electrical):

