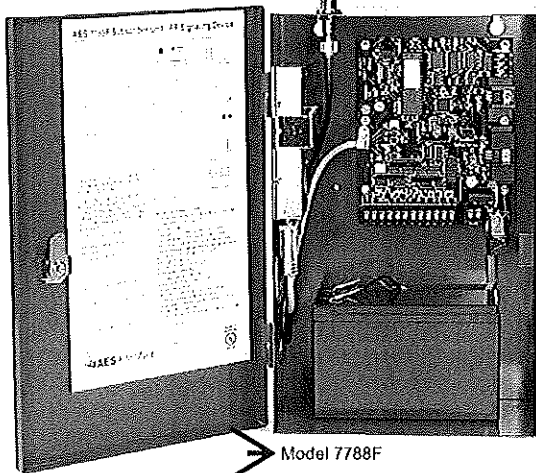


➤ 7788F/7744F Series

Wireless Fire Alarm Communicators for AES-IntelliNet

AES IntelliNet
CORPORATION | For Alarm Monitoring



Advanced Wireless Alarm Monitoring

The AES-IntelliNet mesh radio network offers unmatched reliability and speed in delivering wireless alarm signals to a central station without third party fees or reliance on networks owned by companies outside the security and fire alarm industry. AES-7788F/7744F Series Smart Subscriber Transceivers provide the wireless communication link between the fire alarm panel and the central station receiver. The 7788F/7744F Series is ideal for most commercial fire alarm applications. Each 7788F/7744F Series Subscriber is housed in a full sized, red, locked, steel cabinet and supports a range of alarm panel inputs including EOL fire, EOL supervised, and direct voltage from the panel (non-fire applications).

Supervised Operation

AES Smart Subscribers offer fully supervised operation that includes monitoring of operating power (both primary AC power and battery backup) and the connection to the radio network. Each Subscriber "checks in" with the AES central station receiver at least once every 24 hours. The supervision check in time can be set for as often as once per minute and, because the central station owns the wireless network, there is no additional cost for air time to transmit supervisory signals.

Full Data Reporting from Alarm Panel Digital Dialer

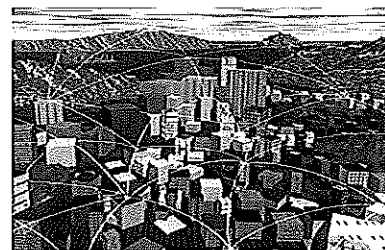
Models 7788F-ULP and 7744F-ULP come equipped with an IntelliPro Fire Full Data Module (AES-7794) which enables reporting of full alarm data captured from the fire alarm panel's digital communicator. IntelliPro Fire supports most alarm communication formats including Contact ID, Pulse, as well as Bosch Modem IIe and Modem IIIa2.

Features – All models

- UL Listed commercial fire alarm applications.
- Meets NFPA 72 requirements
- Direct reporting to AES receiver across IntelliNet wireless mesh network
- Each Subscriber acts as transmitter/receiver/repeater
- Simple and fast activation on network
- On board status LEDs for easy set up
- 8 programmable zone inputs – 7788F
- 4 programmable zone inputs and 4 reverse polarity inputs – 7744F
- Easy programming via AES handheld programmer or PC
- Rugged metal housing ideal for any commercial fire alarm application

Models 7788F/7744F-ULP with IntelliPro Fire also includes

- IntelliPro Fire transmits full alarm data from virtually any fire alarm panel digital communicator
- Alarm format support for Contact ID, Pulse, or Bosch Modem IIe or Modem IIIa2
- Easy installation in AES subscriber
- Operates in applications with or without a phone line



Wireless mesh networking is an innovative technology adopted by many industries with applications that need to communicate data over a large geographic area with a high level of reliability at a low total cost of ownership.

The advanced design and 2-way communications capability provides easy installation, expansion, and management when compared to alternative communication methods, both wired and wireless.

7788F/7744F Series



Technical Specifications

7788F/7744F Series Subscribers

Dimensions

- 13.25"H x 8.5"W x 4.3"D
(34cm H x 21.5cm W x 11cm D)

Weight

- Approx. 7 pounds (3.2 kilograms), excludes battery.

Radio Frequency

- Standard Frequency Range: 450-470MHz (others available)
- Output Power - 2 Watts (others available)

Antenna

- Included 2.5 db lamper resistant antenna mounts on enclosure
- Multiple remote antenna options available

Power Input

- 16.5VAC, 40VA (transformer not included)

Backup Battery

- Will charge 12V battery up to 7.5 AH. Requires 12VDC 7.5 AH battery for UL 864.

Alarm Signal Inputs (subscriber)

- 7788F – 8 individually programmable zones
- 7744F - 4 individually programmable zones and 4 reverse polarity inputs

UL Standards

- UL 864 Edition 9 – Standard for Control Units and Accessories for Fire Alarm Systems
- UL 365 – Standard for Police Station Connected Burglar Alarm Units and Systems
- UL 1681 – Standard for Central Station Burglar Alarm Units

Antenna Cut / Communication

Trouble Output

- Form C relay; fail secure; rated for 24 VDC 1A resistive

Reset Button

- Located on main circuit board.

Operating Temperature

- 0° to 50° C (32° to 122°F)

Storage Temperature

- -10° to 60° C (14° to 140°F)

Relative Humidity

- 0 to 85% RHC, Non Condensing

AES-7794 IntelliPro Fire

Input / Output Connections

- RJ11 connection to AES subscriber for module data and power
- RJ11 connector for Handheld Programmer/PC programming
- RJ31X Telco connections - T and R both in and out via terminal strip and RJ45
- Alarm Panel digital communicator T and R both in and out via terminal strip and RJ45
- Trouble output: Form C relay detects if Subscriber is off the network

Alarm Formats

- Support for Contact ID and Pulse formats as well as Modem IIe and Modem IIIa2 converted to CID

Size

- 2.8 x 5.0 inches (7.1cm x 12.7cm)

Power Requirements

- 12 VDC nominal - primary and backup power provided by the AES 7788F/7744F or other Subscriber

How to Order

Model	Description
7744F	4 Zone Fire Alarm Subscriber with 4 reverse polarity inputs
7744F-U LP	7744F Fire Alarm Subscriber with IntelliPro Fire full data module
7788F	8 Zone Fire Alarm Subscriber
7788F-U LP	7788F Fire Alarm Subscriber with IntelliPro Fire full data module

Optional Accessories

7041E	Subscriber Handheld Programmer
7794	IntelliPro Fire Full Data Module



AES-IntelliNet™ is the industry leader in delivering high quality wireless mesh networks to the fire and security industry in commercial, corporate, government, and educational applications with its broad line of products and advanced network management tools. Users of AES-IntelliNet networks have gained significant revenue, communications, and cost advantages while meeting the high standards of reliability required for the fire and security industry. AES-IntelliNet alarm monitoring systems are deployed at hundreds of thousands of locations in over 150 countries.



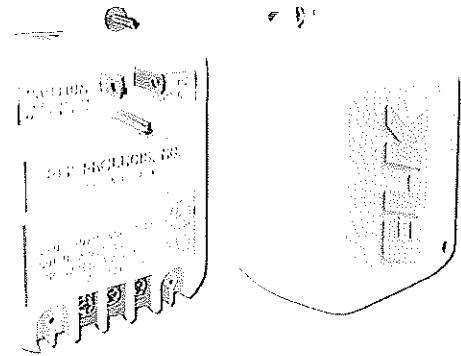
AC Transformers & 12 VDC Plug In Power Supply

ELK-TRG1640 & TRG2440

- Auto-Resetting (PTC) Fused Secondary
- Green Power On LED
- Grounding Prong & Terminal
- Electrical outlet mounting tab
- UL Listed
- Lifetime Limited Warranty
- Wire Strain Relief

Specifications

- Input Voltage: 120 VAC, 60 Hz, .43A
- Output Voltage: TRG1640 = 16.5 Volts A.C.
TRG2440 = 24 Volts A.C.
- Output Power: TRG1640 = 45 VA
TRG2440 = 40 VA
- Size: 4.14"H x 2.74"W x 2.2"D
(105mm x 70mm x 56mm)
- Color: White



LIFETIME WARRANTY
Grounding Terminal
Power LED
Strain Relief
All in One!

ELK-P1216

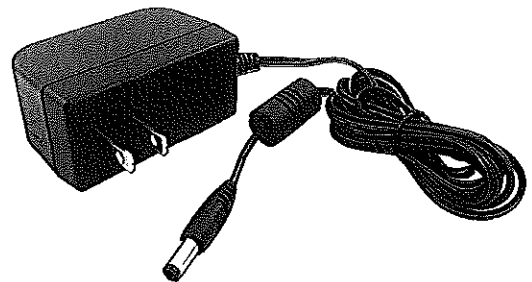
The ELK-P1216 is a general purpose 12 Volts D.C. Switching Plug-In Power Supply. It is ideal for alarm, access control, and CCTV applications requiring up to 1.5 Amps. The power pack plugs into 100 to 120 Volts A.C., and supplies regulated 12 Volts D.C. to a standard 2.1mm power plug.

Features

- Switching Power Supply
- Regulated 12 Volts D.C. Output
- Six foot cord and standard
- 2.1mm x 5.5mm x 9mm plug (center is positive)
- UL Listed
- Efficiency Level: V
- Lifetime Limited Warranty


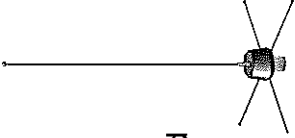


Specifications

- DC Output Voltage: 12 Volts D.C.
- Current Rating: 1.5 Amps
- AC Input Voltage Range: 100-120 @ 47~63 Hz
- Size: 1.75"H x 1.375"W x 2.75"D



12 Volts D.C.
Plug-In Power Supply
Slimline Design
RoHS Compliant

➤Antenna & Accessory Selection Guide

Description	Freq Range	Gain	Power Capability	Mast/Whip Length	Mast/Whip Material	Mount Style	Ground Radials Included	Connector Type	Recommended Cable	Application	Bandwidth	Vertical Beam Width	Horizontal Beam Width	Order Number
 Casetop Flex	460-470	2.5db	5W	10"	Black Vinyl Clad/Flex	Mounts on case	No (case is grd plane)	TNC	cable included	Indoor	±5 MHz	38°	Omnidirectional	7210-3-UR/C
 Standard	460-470	3db	50W	18"	Stainless Steel	Universal Mount	Yes	N	7220-10-N or -25	In/Outdoor	±5 MHz	35°	Omnidirectional	7210-3-UM
 Stealth	460-470	3db	50W	18"	Vinyl Clad	Easy Hang Mount	Yes	TNC	10' cable included	Indoor	±5 MHz	35°	Omnidirectional	7211
 Hi Gain	460-470	5db	50W	36"	Stainless Steel	Universal Mount	Yes	N	7220-10-N or -25-N	In/Outdoor	±5 MHz	18°	Omnidirectional	7210-5-UM

More Antennas & Accessories on Next Page ->



Antenna & Accessory Selection Guide, *continued*

Description	Freq Range	Gain	Power Capability	Mast/Whip Length (approx)	Mast/Whip Material	Mount Style	Ground Radials Included	Connector Type	Recommended Cable	Application	Bandwidth	Vertical Beam Width	Horizontal Beam Width	Order Number
Rugged Hi Gain	460-470	6db	150W	48"	Fiberglass	Mast Mount	Yes	N	7220-10-N / -25-N	In/Outdoor	±5 MHz	14°	Omnidirectional	7210-6-UC
Higher Gain	460-470	7+db	200W	72"	Fiberglass	Mast Mount	Yes	N	7220-10-N / -25-N	In/Outdoor	±5 MHz	12°	Omnidirectional	7210-7-US
Central Station	460-470	9db	200W	96"	Fiberglass	Mast Mount	Yes	N	7220-10-N / -25-N	In/Outdoor	±5 MHz	7°	Omnidirectional	7210-9-UC
Lightning Protector	N female to N female Coax Inline A MUST for systems with outdoor antennas													
Bandpass Cavity Filter	Enhances radio performance by filtering out unwanted RF energy. Custom tuned to specified frequency. N female to N female. Call for details.													
10' Cable	RG58 Low Loss BNC male to N male 7050 to Antenna 7220-10-N													
25' Cable	RG58 Low Loss BNC male to N male 7050 to Antenna 7220-25-N													



GRI

Tamper Switches

GI-TS01

- *Screw terminals*

> GI-TSW01

- *12" leads*
- Eliminates false alarms and service calls
- Fits most bell, siren, control panel mounting hole patterns
- Lifetime warranty

