

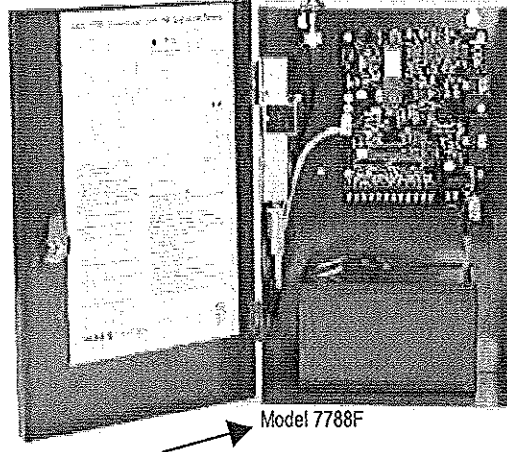
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WIRELESS FIRE ALARM COMMUNICATOR
& ACCESSORIES

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7788F/7744F Series

Wireless Fire Alarm Communicators for IntelliNet



Advanced Wireless Alarm Monitoring

As expensive dedicated landlines, required for UL864 compliance disappear, and the future of GSM for alarm transmission becomes increasingly uncertain, the AES IntelliNet mesh radio network continues to offer unmatched reliability and speed in delivering wireless alarm signals to a central station without any third-party fees or reliance on networks operated by companies outside the alarm industry. The 7788F/7744F Series Subscribers provide the wireless communications link between the fire alarm panel and the central station receiver. 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 Subscribers offer fully-supervised operation that includes monitoring of operating power (both primary AC and battery back-up) and the connection to the mesh 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 to as often as needed for the application, as appropriate for the network. Because the central station operates 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 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 (when converted to Contact ID format).

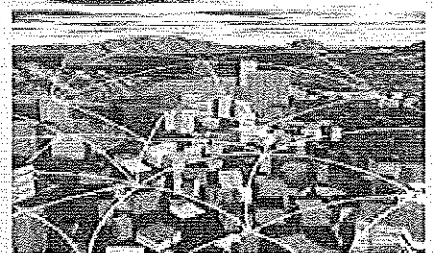


Features – All models

- UL Listed commercial fire alarm applications.
- Meets NFPA 72 requirements
- Direct reporting to AES receiver across IntelliNet mesh radio 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
- Narrowband compliant

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, as well as Bosch Modem IIe and Modem IIIa
- 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.

7744F/7788F Series



Technical Specifications

7788F/7744F Series Subscriber

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 in 400-512MHz range)
- Output Power – 2 Watts

Antenna

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

Power Input

- 16.5VAC, 40VA transformer (not included) (AES 1640, ELK TRG1640, MG Electronics MGT1640 – UL Listed for use)

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

Packaged with 7744F-ULP and 7788F-ULP

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-ULP	7744F Fire Alarm Subscriber with IntelliPro Fire full data module
7788F	8 Zone Fire Alarm Subscriber
7788F-ULP	7788F Fire Alarm Subscriber with IntelliPro Fire full data module

Optional Accessories

7041E	Subscriber Handheld Programmer
7794	IntelliPro Fire Full Data Module
1640	Plug-in Transformer: 16.5VAC, 40VA



AES-IntelliNet™ is the industry leader in delivering high-quality mesh radio 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 130 countries.



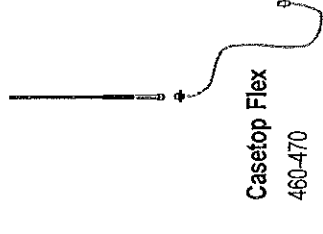


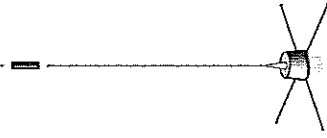
For more information
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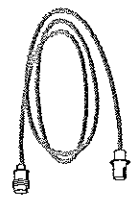
Antenna & Accessory Selection Guide

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	7214
 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	BNC	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

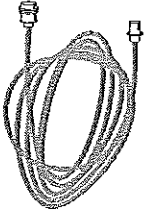
Antenna & Accessory Selection Guide, continued

Description	Central Station	Higher Gain	Rugged Hi Gain
Freq Range	460-470	460-470	460-470
Gain	9db	7+db	6db
Power Capability	200W	200W	150W
Mast/Whip Length	96"	72"	60"
Mast/Whip Material	Fiberglass	Fiberglass	Fiberglass
Mount Style	Mast Mount	Mast Mount	Mast Mount
Ground Radials Included	Yes	Yes	Yes
Connector Type	N	N	N
Recommended Cable	7220-10-N / -25-N	7220-10-N / -25-N	7220-10-N / -25-N
Application	In/Outdoor	In/Outdoor	In/Outdoor
Bandwidth	±5 MHz	±5 MHz	±5 MHz
Vertical Beam Width	7°	12°	14°
Horizontal Beam Width	Omnidirectional	Omnidirectional	Omnidirectional
Order Number	7210-9-UC	7210-7-US	7210-6-UC


10' Cable
 RG58 Low Loss
 BNC male to N male
 7050 to Antenna
 7220-10-N



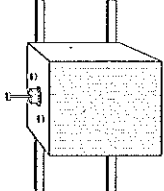
25' Cable
 RG58 Low Loss
 BNC male to N male
 7050 to Antenna
 7220-25-N



Lightning Protector
 N female to N female Coax Inline
 A MUST for systems with
 outdoor antennas
 7230



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.





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Batteries

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MARKET OVERVIEW

TECHNOLOGY OVERVIEW

PRODUCTS

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- [Door Controls](#)
- [Annunciator Panels](#)
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- [Accessories](#)
- [And More](#)

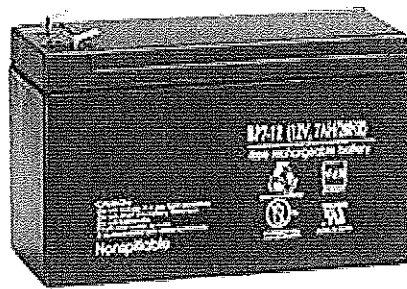
NEWS/EVENTS/INFO

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Jump to:

- [Gel Batteries for Alarm Panels and RF Subscribers](#)
- [5100 Wireless Batteries](#)
- [1700 Wireless Batteries](#)
- [726/727 Power Supply Batteries](#)



12V Rechargeable Batteries for Alarm Panels and Transceivers

- Standard Battery, 12V, 4.5AH, #8124-P
May be used in AES 1700B, 1710, 4100, 5100, 6500, 6300, 7050E, 7450-XL,
- Large Battery, 12V, 7AH, #8127-P
Used for 1700, 1710, 4100, 5100, 7050E, 7788F, 7744F

Batteries for AES 5100 Wireless Accessories

- 1.5V AAA Alkaline Battery, #8924, pack of 10
Used in 5120 Transmitter, 2 per transmitter
- 12V Alkaline Battery, #8925, pack of 10
Used in 5110 Key Fob Transmitter, 1 per transmitter
- 3.6V 1/2-AA Lithium Battery, #8926, pack of 10
Used in 5115 Panic Transmitter. 1 per transmitter
- 3V Lithium Cell, #DL-123A,
Used in 5128 Glass Break Transmitter, 2 per transmitter
- 9V Alkaline, #8905
Used in 5135 Smoke Detector Transmitter, 2 per transmitter
- 9V Lithium, #8927, pack of 10

ACCESSORIES

[Batteries](#)

[Sensors](#)

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AES Security - Batteries

Long life option for 5135B Smoke Transmitter, 2 per transmitter

1.5V AA Alkaline

Used in 5155 PIR Motion Sensor Transmitter, 2 per transmitter

Batteries for AES 1710 Wireless Accessories

3V Lithium Batteries, #17-0015

Used in DXT-21 Panic Transmitter, 2 per unit

3V Lithium Batteries, #17-0015

Used in for DXT-31 Door/Window Transmitter, 2 per unit

9V Alkaline Batteries,

Used in DXT-54 PIR Motion Sensor Transmitter

Batteries for AES DC Power Supplies

Heavy Duty Battery Pack, 24V, 7AH, #726-HDB

May be used in AES 726 24VDC Power Supplies

Extra Heavy Duty Battery Pack, 24V,12AH, #727-HDB

May be used with:

- AES 727 24VDC 10A Power Supply
(use one battery pack; fits in case)

- AES 780 24VDC 15A Power Supply
(use two battery pack; batteries placed outside supply)

UPDATED APRIL 2010