

# HYBRID



## 7177 Hybrid 2.0 Subscriber Frequently Asked Questions (FAQs)

## Introduction

This document provides answers to most commonly asked questions regarding the new AES **7177 Hybrid 2.0 Subscriber**.

The new 7177 Hybrid 2.0 Subscriber provides dual functionality, combining elements of the powerful next generation *IntelliNet* 2.0 Fire Subscriber with IP Link capabilities to act as a network bridge.

>> **Start a new network** with a pair of Hybrid Subscribers for a Hybrid Subscriber Only configuration

>> **Optimize network health** and reduce congestion by installing a pair of Hybrid subscribers in areas where there's only Distant IP Link Access

>> **Expand an existing network** in areas that have No IP Link Access with a pair of Hybrid Subscribers

The AES Hybrid includes the AES-*IntelliPro* full data module and IP Link capabilities, plus provides the capability to send an alarm from the Customer premises to the Central Monitoring Station via Radio Frequency and/or Internet Protocol (IP) AND **transmit peer signals via IP**.

Wi-Fi internet connectivity comes standard.

Please refer to the product Quick Start Guide and User Manual for more detailed information about installation, configuration, and operation of the system. When in doubt or if you need an answer to a specific question, just contact AES Support. Our team of alarm industry experts are available Monday through Friday from 8am to 8pm EST and 24/7 for emergency IP Link and AES-*MultiNet* Receiver down situations. Start a live chat session via the Support Online button or Skype Call on our 'aes-corp.com' website (visit the Technical Support web page) or call (866) 237-3693.

<h3>Hybrid Models</h3>	
<b>7177H-88-ULP</b>	Hybrid 2.0 Subscriber, 8 Zone (isolated dry contact) Fire unit with AES- <i>IntelliPro</i> included and IP Link capabilities
<b>7177H-44-ULP</b>	Hybrid 2.0 Subscriber, 4x4 Zone Fire unit with AES- <i>IntelliPro</i> included and IP Link capabilities
<p>The 7177 Hybrid comes standard with integrated AES-<i>IntelliPro</i> full data module and Wi-Fi Internet, no need to order 7794A standalone or 77-WiFi adapter separately.</p> <p>Hybrid units will ship with TNC connectors for RG-8 and RG-58 cables included at no extra charge.</p>	

Q: How is the 7177 Hybrid different from today's 7170 IP Link?

A: The 7170 IP Link remote receiver connects AES mesh radio networks to AES-*MultiNet* central station receivers via the Internet. The 7177 Hybrid unit adds local customer premises protection. It also adds a fallback operating mode when the internet connection is lost that will store and forward traffic like a traditional 'Mesh Radio Only' subscriber. The Hybrid unit may be connected to the Internet via a hardwired connection or through a Wi-Fi network connection. It also supports the standard *IntelliNet* 2.0 installation Graphic User Interface (GUI), Universal Serial Bus (USB), or Browser-based firmware upgrade.

Q: Can the Hybrid unit be used as a 'Subscriber Only'?

A: The 7177 Hybrid is comprised of both 2.0 Subscriber functionality and 7170 IP Link capabilities, however the Network Bridge functionality and Internet connection cannot be disabled or the unit will be in fault. If 'Subscriber Only' functionality is required without the need for IP Link functionality, then the 7788F/7744F Legacy Fire Subscriber or 7707 2.0 Fire Subscriber models should be installed.

Q: Can the Hybrid unit be used as just an IP Link without using the Subscriber functionality?

A: Yes. The 7177 can be installed solely as a Mesh Radio/Internet Network Bridge.

Q: Since the Hybrid units must be installed as pairs, what happens when I install the first one? How quickly do I need to install the second one?

A: The single Hybrid unit will report 'RF COMM FAULT' and 'RM COMM FAULT' messages until the partner IP Link or Hybrid Subscriber is brought online. These will be reported locally and to automation software at the Central Monitoring Station. The loss of a single Network Bridge unit will immediately disrupt the local Mesh Radio network significantly, so the partner unit should be installed ASAP.

Q: Why is a pair of 2 Hybrid units required?

A: It is a UL 864 requirement to deliver independent RF Mesh and Internet communication.

Q: Can wired IP and Wi-Fi IP be used at the same time?

A: Yes. One Hybrid unit can be used with an Ethernet connection and another unit used with TCP/IP, however a single Hybrid unit cannot use both at the same time.

Q: Will the Hybrid models replace today's IP Links?

A: There are no current plans to discontinue the 7170 IP Link product.

Q: Will a Burg version of the Hybrid be available in the future?

A: No, there is only one version of the Hybrid for Fire (not Burglary). The Hybrid is available in 2 Models, the 7177H-88-ULP or the 7177H-44-ULP. Refer to the product datasheet for details.

Q: Can the Hybrid handle the same amount of traffic as an IP Link?

A: Yes.

Q: Should I modify my existing FCC license knowing that I can expand my AES network beyond my licensed area?

A: Always operate within the limits of your license. Knowing that the capabilities of the 7177 Hybrid allows you to expand network coverage, take advantage of this opportunity to modify your current FCC license for extending the edges of your network a minimum of an additional 50-75 mile radius. Contact your AES Sales Representative to find out how at [sales@aes-corp.com](mailto:sales@aes-corp.com) or call (800) 237-6837.

Q: What is the price?

A: Pre-Order pricing is being offered from 11/19/2018 thru 12/31/2018! Contact your AES Sales Representative for details, availability, and special introductory pricing at [sales@aes-corp.com](mailto:sales@aes-corp.com) or (800) 237-6387.

Q: Does the unit have cellular data capabilities?

A: No. A cellular internet connection may be accomplished using an external cellular Wi-Fi router solution, such as CradlePoint.

Q: Can I move the tamper from Zone 1 to another zone?

A: Yes.

Q: How do I connect an external antenna?

A: This is covered in the 7177 Hybrid product instruction manual in full detail.

The basic steps are:

1. Remove the Radio Transceiver
2. Reverse the Mounting bracket
3. Mount the ASM to the bracket
4. Use a TNC-N adapter cable to provide an external connection on the case
5. Install the Coax to the external antenna

Q: What are the battery requirements?

A: [Refer to the 7177 Hybrid product manual for recommended battery specifications.](#)

Q: What are the current requirements when powering from the panel?

A: [Refer to the 7177 Hybrid product manual for recommended power requirements.](#)

Q: The 7177 Hybrid is UL 864 Approved, will it be CSFM and FDNY listed as well?

A: [The 7177 Hybrid is currently listed with CSFM and the listing is pending with FDNY.](#)

Q: Is the Hybrid available for VHF or UHF only?

A: [The 7177 Hybrid is currently only available for UHF.](#)

## Revision History

Description	Created by	Revision & Date
FAQ – First Release	AES Engineering	November 19, 2018