

RF Subscriber Unit

- **The Original Workhorse for the AES-IntelliNet system**
- **A Transceiver and a Repeater - All in One Box!**

The AES 7050 Communicator is the smart workhorse of the AES•IntelliNet system, serving as both a transceiver and a repeater.

- **Smart Controller** – the brains of the communicator: links to your AES wireless network; interfaces to an alarm panel; performs repeater functions for other subscribers; automatically checks in at the programmed interval; communicates with the central station for programming changes, etc.
- **Transceiver** – 2 to 5 watt, tuned to the frequency coordinated for you by the CSAA and the FCC. AES can oversee the licensing process.
- **Range:** Typical 2 watt transceivers have a range of 5 to 25 miles, depending on terrain, antenna height and other factors. Using the "network" structure, AES•IntelliNet systems grow quickly to cover thousands of square miles.
- **Locking Steel Case** – complete with locking, hinged cover and convenient knockouts for easy installation. Optional weathertight unit is available.

Specifications

Size: 13.5"hx 8.5"w x 4.3"d / 34 x 21.5 x11 cm

Case: Steel, with lock

Inputs: 8 zone inputs, individually programmable NC/NO. (EOL available on optional 7070 zone card). Expandable to 72 zones

Outputs: Form C relay outputs on optional 7065 relay output module, 8 relays per card, expandable to 64. Each relay is individually addressable from central station.

Power: 12VDC operation; requires 7072 power supply module and 16.5VAC@40VA transformer; or 13.8VDC@2A source,

Backup Power: 12V, 4AH (min) rechargeable gel battery.



How It Works

Each 7050 Subscriber Unit / Communicator automatically establishes its position within the system. **No special programming is needed.**

When the "smart" transceiver is first turned on, it broadcasts a "query" to the network. All transceivers in the area respond, identifying themselves and their proximity to the central station.

From these responses, the new unit creates a list of routes which it can use to communicate with the central station. The list is prioritized by proximity to the central station - the shortest routes are preferred.

At the same time, other subscribers in the area "hear" the new transceiver, and can add it to their own routing lists. The system actually becomes more reliable as the number of subscribers grows.

Options:

- 7072 Multi-Function Module - power supply, wide range zone inputs, trouble output, more
- 7070 Input Expansion Module - 16 zones
- 7063 Data Interface Module
- 7065 Relay Output Module - 8 channels
- 7050-NM4 Weathertight Unit



Typical Configuration**RF Subscriber Unit****ANTENNA**

Omnidirectional,
choose from 3db to 9db

SUBSCRIBER UNIT

- 7050 - with locking steel case; or
- 7050-NM4 - with weathertight case

TRANSCEIVER

UHF or VHF transceiver, set to
customer specified frequency

SMART CONTROLLER

Accepts up to 8 discrete inputs;
expandable I/O capability; reports
alarms, restorals, low battery and
more; programmable for NO, NC
and voltage inputs

OPTIONS

**7072 Multi-Function Module
with Power Supply, wide range
inputs and comm. failure
output;** speeds installation &
adds capabilities

7070 Input Expansion Module -
adds 16 zones; up to 4 modules
may be used for 72 total inputs

**7065 8-Channel Relay Output
Module -** allows remote control
from central station; up to 64
outputs are possible

**POWER SUPPLY
BACKUP BATTERY**

Efficient 12V system runs for
days on 7AH battery

**EXISTING ALARM
CONTROL PANEL**

The 7050 links to any panel
with voltage, dry contact or
RS-232 outputs

