

Specifications

Conditions of Sale

STANDARD: The seller's standard conditions of sale set forth in Price Sheets 150 and 155 apply, except as modified by the "SPECIAL WARRANTY PROVISIONS."

SPECIAL TO THIS PRODUCT:

INCLUSIONS: The S&C SpeedNet™ SDR Software Defined Radio, powered by XetaWave, is available in the 400-MHz and 900-MHz licensed bands. Both bands support a single-channel as well as a dual-channel radio. These radios optimize parameters across three axes: power output, channel size, and link speed, and they have the following features:

- 400-MHz and 900-MHz licensed frequency
- Adjustable modulation, allowing for variable data-transfer rates (Up to two channels are supported with the dual-channel SpeedNet SDR 4×4 and SpeedNet SDR 9×9 Radios, effectively doubling the throughput.)
- Adjustable power output
- Adjustable channel bandwidth to address regulations around the globe and to maximize data throughput accordingly
- Use of a mesh-routing protocol to eliminate single-point network failures
- AES 256-bit encryption upgradeable
- Password authentication
- VLAN network segregation
- Two independent Ethernet ports, each with full VLAN support and configurable as access ports, trunks, or mixed
- Seamless integration for hybrid networks using both Ethernet and legacy serial devices

Antennas

The SpeedNet SDR Software Defined Radio is Federal Communication Commission (FCC) and Industry Canada (IC) approved for use only with the proper antenna/cable combinations, so the total system gain and effective radiated power will remain within the limits of the license.

EXCLUSIONS: If the user's communication system also requires licensed radios, frequency-selection and FCC-license applications are to be provided by other providers.

SPECIAL WARRANTY PROVISIONS: The standard warranty contained in the seller's standard conditions of sale, as set forth in Price Sheets 150 and 155, applies to S&C SpeedNet SDR Software Defined Radios, except the first paragraph of said warranty is replaced by the following:

(1) General: The seller warrants to the purchaser for a period of two years from the date of shipment that the equipment delivered will be of the kind and quality specified in the contract description and will be free of defects of workmanship and material. Should any failure to conform to this warranty appear under proper and normal use within two years after the date of shipment, the seller agrees, upon prompt notification thereof and confirmation that the equipment has been stored, installed, operated, inspected, and maintained in accordance with recommendations of the seller and standard industry practice, to correct the nonconformity either by repairing any damaged or defective parts of the equipment or (at seller's option) by shipment of necessary replacement parts.

The above special warranty does not apply to gateway-communication devices applied with SpeedNet SDR Software Defined Radios.

END USER LICENSE AGREEMENT: The end user is granted a nontransferable, nonsublicensable, nonexclusive license to use the software furnished with SpeedNet SDR Software Defined Radios only upon acceptance of all the terms and conditions of the seller's end user license agreement set forth in Price Sheet 155.



How to Order

Select a catalog number for the radio from Table 1.

Table 1. SpeedNet SDR Software Defined Radio

Item	Catalog Number
SpeedNet SDR 4 Radio—For mounting in user-furnished enclosure. Includes terminal block for connection to user-furnished 12-Vdc power source	110-000590-01
SpeedNet SDR 4×4 Radio—For mounting in user-furnished enclosure. Includes a terminal block for connection to user-furnished 12-Vdc power source	110-000590-02
SpeedNet SDR 9 Radio—For mounting in user-furnished enclosure. Includes a terminal block for connection to user-furnished 12-Vdc power source	110-000591-01
SpeedNet SDR 9×9 Radio—For mounting in user-furnished enclosure. Includes a terminal block for connection to user-furnished 12-Vdc power source	110-000591-02

Select an antenna or antenna accessory from Table 2.

Table 2. SDR 4 and SDR 4X4 Antenna and Accessories

Item	Catalog Number
403-470 MHz N-male connector, 2-dBi omnidirectional antenna. Kit includes antenna pole mounting and bracket BM-1009, 2-shrink tubing, grounding kits for LMR-400, a weather-resistance cable tie for a SpeedNet SDR 4 Radio, and 60-foot (1829 cm) 50 ohm coaxial cable	903-002444-01
403-470 MHz N-male connector, 2-dBi omnidirectional antenna. Kit includes antenna pole mounting and bracket BM-1009, 2-shrink tubing, grounding kits for LMR-400, a weather-resistance cable tie for a SpeedNet SDR 4 Radio, and 40-foot (1219-cm) 50-ohm coaxial cable	903-002444-02
403-470 MHz 2-dBi omnidirectional antenna, N-male connector. Includes a mounting bracket for a pole-mounting bracket or pipe	904-002450-01
Kit, 403-470 MHz 2-dBi omnidirectional antenna, N-female connector, for an IntelliRupter® PulseCloser® Fault Interrupter with a mounting bracket	903-002448-01
403-470 MHz 2-dBi omnidirectional antenna, N-female connector	904-002455-01
Antenna mount, L bracket, and bracket V-bolt for N-female connector	904-002456-01

Note: For two-channel radios, vertical separation of the antennas is recommended.

SpeedNet SDR Radio

Dimensions in inches (mm)



