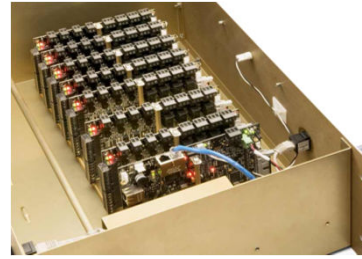


# S2-NN-Exx-xx

## NetBox Network Node



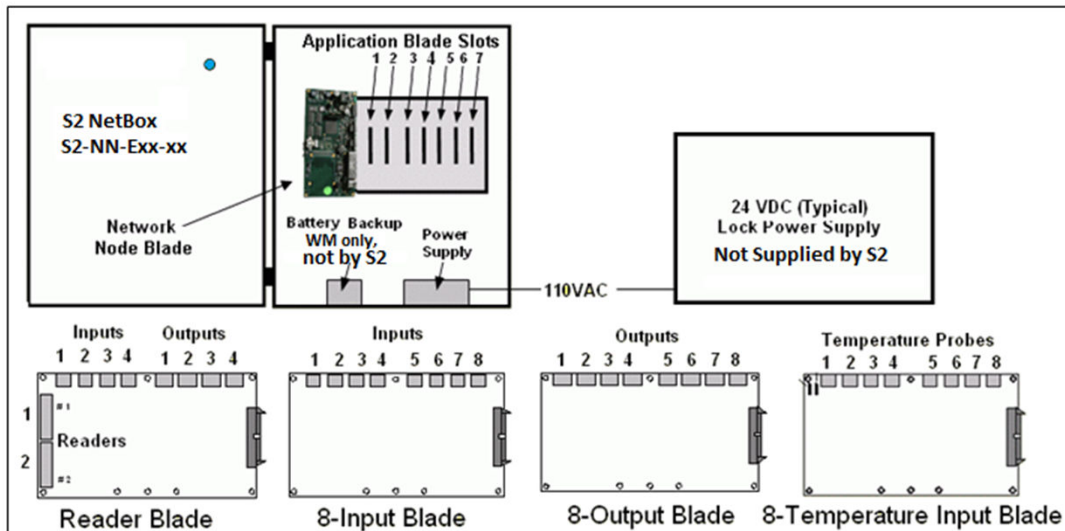
The S2 NetBox Network Node (S2-NN-Exx-xx) is the connection point for card readers, monitoring points, relay outputs, and temperature points. The NetBox Network Node is available in two enclosure styles, Wall Mount and Rack Mount.

The Network Node Blade (S2-CBM) is included with the NetBox Network Node, unless ordered in conjunction with an M2 controller and license (S2-M16/M32). In those cases, a Network Controller/Node combination blade (S2-M2) is included with the NetBox instead of the Network Node Blade. In either case the Node Blade or the Network Controller/Node combo blade will be installed in the first blade location in the NetBox.

The Network Node Blade is an intelligent device with native TCP/IP support. The Network Node Blade makes and manages access control decisions with data provided by the Network Controller, and manages the communication between the Controller and Application blades connected to the system's inputs, outputs, and readers. Communications between the Network Node Blade and Network Controller is encrypted and authenticated (SHA-1).

The additional 7 slots in the NetBox Network Node support application blades, including Access Control Blades (S2-ACM), Input Blades (S2-INP), Output Blades (S2-OUTP) and Temperature Probe Blades (S2-TEMP). The application blades. The 7 application blade slots can be filled in any combination of application blades.

The S2 NetBox Network Node includes a 12VDC Power Supply. The Wall Mount version (not Rack Mount) includes the ability to charge a backup battery (backup battery not supplied). Rack Mount version must be backed up with a separate UPS. The 12VDC Supply in the NetBox powers the Network Node Blade and Application Blades. External Devices such as 12VDC Card Readers are powered indirectly by the NetBox Power Supply, field devices can be supplied 12VDC power through the S2-ACM (See S2-ACM cut sheet for detail).



Typical NetBox Configuration

## Specifications

Input Power Requirement	100-240V AC 50-60 Hz isolated earth ground. If powered by separate DC power supply (instead of internal power supply), power required is 12 VDC, 5A.
Output Power	12VDC, up to 2800ma total (400ma per blade) to power external devices
Environmental	Temperature: 32°F to 120°F (0°C to 49°C) Operating Relative Humidity Range: Up to 85% non-condensing
Dimensions	Wall Mount: 17"H x 15"W x 6.75"D Rack Mount: 7"H (4U) x 17"W x 15"D
Blade Slots	8, (1) for Network Node Blade, (7) for application blades
Blade Slot 1	Network Node Blade, S2-CBM, Included with S2-NN-Exx-xx Network Controller/Node Blade, S2-M2, included with S2-NN-Exx-xx if ordered in conjunction with S2-NC-16 or S2-NC-32
Blade Slots 2 - 8	4 Blade types available, S2-ACM, S2-INP, S2-OUTP, S2-TEMP in any combination
Approvals	UL 294 and CE listed system configurations available
Optional Hardware	Rack Mount Slide Rail Kit

## Ordering Information

The Network Node Blade (S2-CBM) is included with the NetBox Network Node, unless ordered in conjunction with an M2 controller and license (S2-M16/M32). In those cases, a Network Controller/Node combination blade (S2-M2) is included with the NetBox instead of the Network Node Blade. In either case the Node Blade or the Network Controller/Node combo blade will be installed in the first blade location in the NetBox. Reader Blades(s) will be included and factory installed in the NetBox based on the part number ordered, per the chart below. Additional application blades must be ordered separately and installed in the field.

Part Number	Description
S2-NN-E2R-WM S2-NN-E2R-RM	2 Reader S2 Network Node (4 In/4 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (1) 2 reader Access Control blade
S2-NN-E4R-WM S2-NN-E4R-RM	4 Reader S2 Network Node (8 In/8 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (2) 2 reader Access Control blades
S2-NN-E6R-WM S2-NN-E6R-RM	6 Reader S2 Network Node (12 In/12 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (3) 2 reader Access Control blades
S2-NN-E8R-WM S2-NN-E8R-RM	8 Reader S2 Network Node (16 In/16 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (4) 2 reader Access Control blades
S2-NN-E10R-WM S2-NN-E10R-RM	10 Reader S2 Network Node (20 In/20 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (5) 2 reader Access Control blades
S2-NN-E12R-WM S2-NN-E12R-RM	12 Reader S2 Network Node (24 In/24 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (6) 2 reader Access Control blades
S2-NN-E14R-WM S2-NN-E14R-RM	14 Reader S2 Network Node (28 In/28 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade and (6) 2 reader Access Control blades
S2-NN-E-WM S2-NN-E-RM	0 Reader S2 Network Node (0 In/0 Out). WM: Wall Mount, RM: Rack Mount Includes Network Node Blade Only
S2-RMK	S2 Network Node (-RM) Enclosure Accessory Rails. Rail Mount Installation Kit for use in EIA standard 19" equipment racks, 17" depth

### S2 Security Corporation

World Headquarters  
50 Speen Street  
Framingham, MA 01701 USA  
Tel: +1 508 663 2500  
Fax: +1 508 663 2512

### S2 Security ASIA

808, #04-151 French Road  
Kitchener Complex  
Singapore 200808  
Singapore  
Tel: +65 65658916

