



Reliable Ethernet Communication in Smart Buildings

PRODUCT BULLETIN



The Building Automation Switch offers electricians a reliable, cost-effective solution to meet the specific electrical installation requirements for commercial and non-residential smart buildings, as well as smart homes.

- Saves time and space during installation by fitting directly into standard electrical distribution enclosures
- Eliminates the need and cost for a separate power supply by embedding Power over Ethernet (PoE) functionality
- Provides fast, reliable Ethernet communication through 8 Fast Ethernet speed ports

Key Features

- Special form factor for easy installation
- 8 ports (Fast Ethernet variants)
- PoE enabled, with a total power budget of up to 110 W
- Ethernet speeds up to 100 Mbit/s
- Integrated 110/230 V power supply
- Operating temperature range of -5°C to +60°C
- Meets electrical installation requirements in commercial/non-residential buildings and smart homes

Unmanaged switch with embedded power supply and optimized housing for use in electrical installation environments.

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Your Benefits

Designed specifically for use in smart building automation, the Building Automation Switch fits directly into the electrical distribution board, making it easier and more efficient to install. And with its own power supply, the switch is cost effective and saves more space than any other unmanaged switches on the market. Equipped with 8 ports, including PoE options, the Building Automation Switch offers multiple variants and can support Ethernet speeds of up to 100 Mbit/s.



As smart buildings enable more automation, there is a trend towards PoE-powered controllers instead of separate power cables, introducing a need for a reliable and cost-effective switch. The Building Automation Switch provides reliable connection to end devices and can be installed directly in the electrical distribution board.

The switch is also an ideal solution for door-entry systems and video surveillance where reliable Ethernet speeds are needed to transmit high-resolution video streams.

Markets

The Building Automation Switch is ideal for smart building applications where IP-enabled controllers and sensors are being powered by PoE. This includes smart homes and buildings, casinos, hotels, and hospital systems.

Additionally, the switch is suited for factory automation environments in which standard modular DIN-rail form factor is required.









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Technical Information

Product Description

Type Boulding Automation Switch (BAS) Description Land Business Automation Applications with MDRC form factor Port Type and Quantity East Ethermet. 8 x 10/100RASE TX/-BL45 x MP Port. 50W Power Budget. AC RIV Interfaces Power Supply/Signaling Contact Boulder, Nominal cross section max 1.5 mm², no spanal contact Power Requirements Power Requirements BAS20-87X-MV 14 MW					
Fast Ethernet, 8 x 10/100BASE TX/RU45 with PoE, 50W Power Budget, AC HV	Туре	Building Automation Switch (BAS	5)		
Pour Type and Quantity Fast Ethernet, 8 x 10/100BASE TX/RJ45 with PGE, 55W Power Budget, AC HV	Description	Unmanaged Ethernet Switch for I	Unmanaged Ethernet Switch for Building Automation Applications with MDRC form factor		
Fast Fibremet, 8 x 10/100RASET X/RJ45 with PoE, 110W Power Budget. AC HV		Fast Ethernet, 8 x 10/100BASE TX/RJ45 AC HV Non-POE			
Interfaces	Port Type and Quantity	Fast Ethernet, 8 x 10/100BASE TX/RJ45 with PoE, 55W Power Budget, AC HV			
Power Supply/Signaling Contact Spoiles, Nominel cross section mail 5 mm², no signal contact		Fast Ethernet, 8 x 10/100BASE TX	X/RJ45 with PoE, 110W Power Budg	get, AC HV	
Power Requirements	Interfaces	•			
Non Pole Variants 100 V AC - 230 V AC, 50/60 Hz	Power Supply/Signaling Contact	6 poles, Nominal cross section ma	ax 1.5 mm², no signal contact		
BAS20-8TX-HV	Power Requirements				
Current Consumption BAS 22-8TX-HV-55 2.5 W 8.6 BTU/h (without PoE) Current Consumption BAS 22-8TX-HV-110 2.5 W 8.6 BTU/h (without PoE) Power Consumption without PoE: FE 2 W - PoE add 1 W + 10% of PoE Load 430 BTU/h (inc. 110 W PoE) Service Diagnostics LEDs (power, link/activity status, POE) Ambient Conditions Operating Temperature -5°C to +60°C derating at PoE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +65°C Relative Humidity (mon-condensing) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) MO mm x 90 mm x 64 mm non PoE 210 mm	Operating Voltage	100 V AC - 230 V AC, 50/60 Hz			
Current Consumption - 66 W 226 BTU/h (mc. 155 W POE) BAS22-8TX-HV-110 2.5 W 8.6 BTU/h (without PoE) Power Consumption without PoE: FE 2 W - POE add 1 W + 10% of POE Load Service Diagnostics LEDs (power, link/activity status, POE) Ambient Conditions Operating Temperature -5°C to + 60°C derating at PoE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +85°C Relative Humidity (non-condensings) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE Mounting DIN Rall Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class 15 g peak, 11 ms, half-sine IEC 60068-2-27 shock 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min, 1g, 8.4 Hz to 15		BAS20-8TX-HV	1.4 W	4.8 BTU/h	
BAS22-BTX-HV-110 2.5 W 8.6 BTU/h (without PoE)		BAS22-8TX-HV-55	2.5 W	8.6 BTU/h (without PoE)	
Power Consumption without PoE; FE 2 W - PoE add 1 W + 10% of PoE Load	Current Consumption	-	66 W	226 BTU/h (inc. 55 W PoE)	
Service Diagnostics LEDs (power, link/activity status,POE) Ambient Conditions Operating Temperature -5°C to + 60°C derating at POE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +85°C Relative Humidity (non-condensing) working humidity 20% to 90%, storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non POE 210 mm x 90 mm x 64 mm POE Mounting DIN Rail Weight Non POE Variants: 250 g; POE Variants: 410 g Protection Class P20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-26 vibration 3.5 mm, 5 Hz to 8.4 Hz; 10 cycles, 1 octave/min.1 g, 8.4 Hz to 150 Hz; 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic slassharge (ESD) 4 kV contact discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field EN 61000-4-5 electromagnetic field EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-6 conducted innumunity (Lines A.		BAS22-8TX-HV-110	2.5 W	8.6 BTU/h (without PoE)	
Service Diagnostics LEDs (power, link/activity status,POE) Ambient Conditions Operating Temperature -5°C to + 60°C derating at POE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +85°C Relative Humidity (non-condensing) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non POE 210 mm x 90 mm x 64 mm PoE Mounting DIN Rail Mounting Non POE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EM 610000-4-2 estorate Immunity EN 610000-4-2 estory A kV contact discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-4 fast transients 2 kV Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-4 fa		-	126 W	430 BTU/h (inc. 110 W PoE)	
Diagnostics LEDs (power, link/activity status,POE) Amblent Conditions -5°C to + 60°C derating at PoE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +85°C Relative Humidity working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE 210 mm x 90 mm	Power Consumption	without PoE: FE 2 W - PoE add 1 W + 10% of PoE Load			
Ambient Conditions Operating Temperature	Service	-			
Operating Temperature -5°C to +60°C derating at PoE total power > 90 W for 110 W Variant, 48 W for 55 W variant Storage/Transport Temperature -40°C to +85°C Relative Humidity (non-condensing) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE 210 mm x 90 mm x 64 mm PoE	Diagnostics	LEDs (power, link/activity status,POE)			
Storage/Transport Temperature -40°C to +85°C Relative Humidity (non-condensing) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE Mounting DIN Rail Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic discharge (ESD) EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-5 surge voltage Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5, 1 kV (U/UTP CAT5) EN 61000-4-6 conducted inmunity EN 61000-6-2 industrial Class A	Ambient Conditions				
Relative Humidity (non-condensing) working humidity 20% to 90%; storage humidity 10% to 95% Mechanical Construction Dimensions (W x H x D)	Operating Temperature	-5°C to + 60°C derating at PoE total power > 90 W for 110 W Variant, 48 W for 55 W variant			
Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE Mounting DIN Rail Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity 4 kV contact discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients (burst) 2 kV Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) (Sayer HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-6-2 industrial 10 V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5)	Storage/Transport Temperature	-40°C to +85°C			
Mechanical Construction Dimensions (W x H x D) 140 mm x 90 mm x 64 mm non PoE 210 mm x 90 mm x 64 mm PoE Mounting DIN Rail Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-6 conducted in UV (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5) EN 61000-6-2 industrial Class A		working humidity 20% to 90%; storage humidity 10% to 95%			
Mounting DIN Rail Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock I5 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field I0 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients (burst) As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-6 conducted innunity EN 61000-4-6 conducted Class A Class A Class A		I.			
Weight Non PoE Variants: 250 g; PoE Variants: 410 g Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients (burst) 2 kV Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) (burst) As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-6 conducted immunity 10 V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5) EN 61000-6-2 industrial Class A	Dimensions (W x H x D)				
Protection Class IP20 Mechanical Stability IEC 60068-2-27 shock 15 g peak, 11 ms, half-sine IEC 60068-2-6 vibration 3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min. EMC Interference Immunity EN 61000-4-2 electrostatic discharge (ESD) 4 kV contact discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients (burst) 2 kV Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) (burst) As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-6 conducted immunity 10 V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5) EN 61000-6-2 industrial Class A	Mounting	DIN Rail			
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EN 61000-4-2 electrostatic discharge, 8 kV air discharge, ±4 kV Horizontal and Vertical Coupling Planes EN 61000-4-3 electromagnetic field 10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz) EN 61000-4-4 fast transients (burst) 2 kV Power Line, Data Line: 2 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-6 conducted immunity Class A Class A	IEC 60068-2-6 vibration	3.5 mm, 5 Hz to 8.4 Hz, 10 cycles, 1 octave/min. 1 g, 8.4 Hz to 150 Hz, 10 cycles, 1 octave/min.			
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(burst) As per HAC quality requirement 4 kV STP(B), 2 kV UTP(B) EN 61000-4-5 surge voltage Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5) EN 61000-4-6 conducted immunity In V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5) EN 61000-6-2 industrial Class A		10 V/m (80 MHz - 1 GHz), 3 V/m (1.4 GHz - 6 GHz)			
EN 61000-4-6 conducted immunity 10 V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5) EN 61000-6-2 industrial Class Δ					
immunity EN 61000-6-2 industrial Class A	EN 61000-4-5 surge voltage	Power Line: 2 kV (Line/Earth) 1 kV (Line/Line); Data Line: 1 kV (SF/UTP CAT5), 1 kV (U/UTP CAT5)			
I (lack Δ		10 V (150 KHz - 80 MHz) Power Line + Data Line (SF/UTP CAT5, U/UTP CAT5)			
		Class A			

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EMC Emitted Immunity		
EN 55032	Class A	
FCC CFR47 Part 15	Class A	
EN 61000-6-4	Class A	
EN 61000-3-2	Class A	
Approvals		
Basis Standard	CE, FCC	
Safety of industrial control equipment	UL61010-2	





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