# Converters, PoE, PoE<sup>+</sup> Switches, Surge protectors





# **Ethernet Optical Media converter**

Fast Ethernet converter BUTP3-MC01- DS20KM  Fast Ethernet Compatible with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX Ethernet et standard; Supports 10/100Mbps full/half duplex auto adaptive; Auto MDI/MDIX functionality.  I x 1.000Mbps fiber optic and 1 Ethernet port which can convert between net converter BUOF7201GE  Gigabit ether- net Converter BUOF7301E- POE  Gigabit Ethernet BUOF7301E- BUOF7301E- BUOF7301E- POE  Fast Ethernet Converter BUOF7301E- POE  Fast Ethernet Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  I x 100 Mbps fiber optic and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input; Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  I x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3u 100 BASE-TX/FX Ethernet standards;  I x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  I x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic optic and power; Support wide voltage DC12V-24V input; Using SFP optical modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			
converter BUTP3-MC01 DS20KM  Compatible with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX Ethernet standard; Supports 10/100Mbps full/half duplex auto adaptive; Auto MDI/MDIX functionality.  1 x 1.000Mbps fiber optic port and 1 Ethernet port which can convert between 10/100/1000BASE-TX and 1000BASE-FX; Using SFP optical module, support hot plug and different performance SFP optical module optional; Compatible with IEEE 802.3, IEEE 802.3u, IEEE802.3ab/z, and Ethernet standard of 10/100/1000BASE-TX and 1000BASE-FX; Supports 10/100/1000BASE-TX and 1000BASE-FX; Supports 10/100/1000BASE-TX and 1000BASE-FX; Supports 10/100/1000Bhps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100Mbps fiber optic and power; Support DC48V~55V wide range voltage input; Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;			
BUTP3-MC01- DS20KM  Supports 10/100Mbps full/half duplex auto adaptive; Auto MDI/MDIX functionality.  1 x 1.000Mbps fiber optic port and 1 Ethernet port which can convert between 10/100/100BASE-TX and 1000BASE-FX; Using SFP optical module, support hot plug and different performance SFP optical module optional; Compatible with IEEE 802.3, IEEE 802.3u, IEEE802.3ab/z, and Ethernet standard of 10/100/1000Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input; Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards; Supports 10/100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  1 x 1		i ast Ethernet	
Supports 10/100Mbps full/half duplex auto adaptive; Auto MDI/MDIX functionality.  1 x 1.000Mbps fiber optic port and 1 Ethernet port which can convert between 10/100/1000BASE-TX and 1000BASE-FX;  Using SFP optical module, support hot plug and different performance SFP optical module optional; compatible with IEEE 802.3, IEEE 802.3u, IEEE802.3ab/z, and Ethernet standard of 10/100/1000BASE-TX and 1000BASE-FX; Supports 10/100/1000Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input; Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards; Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using 19 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;		BUTP3-MC01-	Compatible with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX Ethernet standard;
I x 1.000Mbps fiber optic port and 1 Ethernet port which can convert between 10/100/1000BASE-TX and 1000BASE-FX;  Using SFP optical module, support hot plug and different performance SFP optical module optional; net Converter BUOF7201GE  Gigabit etheroptical module optional; auto MDI/MDIX functionality.  I x 100Mbps fiber optic and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input; BUOF7301E-POE  Fast Ethernet Converter BUOF7201F  L x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards; Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Supports 10/100Mbps full/half duplex auto adaptive;
Ween 10/100/1000BASE-TX and 1000BASE-FX;  Using SFP optical module, support hot plug and different performance SFP optical module optional;  net Converter Compatible with IEEE 802.3, IEEE 802.3u, IEEE802.3ab/z, and Ethernet standard of 10/100/1000BASE-TX and 1000BASE-FX;  Supports 10/100/1000Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input;  per letternet ethernet port with PoE, support IEEE802.3 af/at standard, maximum 30W output;  Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Converter BU0F7201E  Fast Ethernet Converter Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards; Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and 1 x network port which can transform between network data, fiber optic and Dower; Support wide voltage DC12V-24V input; Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Auto MDI/MDIX functionality.
Gigabit ether- net Converter BUOF7201GE  Supports 10/100/1000BASE-TX and 1000BASE-TX;  Supports 10/100/1000BASE-TX and 1000BASE-TX;  Supports 10/100/1000Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input;  BUOF7301E- POE  Gigabit Ethernet port with PoE, support IEEE802.3 af/at standard, maximum 30W output;  Use SFP optical module, support hot plug and different SFP module optional;  Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 179 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			
Supports 10/100/1000Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input;  BUOF7301E-POE  Fast Ethernet  Fast Ethernet  Converter BUOF7201E  Light Tanash Tana	20.5	Gigabit ether-	optical module optional;
Auto MDI/MDIX functionality.  1 x 100Mbps fiber port and 1 x Ethernet port which can converter between network data, fiber optic and power; Support DC48V~55V wide range voltage input;  The second power in the poly of the poly output;  Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 179 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;	Name of the last o	net Converter BUOF7201GE	Compatible with IEEE 802.3, IEEE 802.3u, IEEE802.3ab/z, and Ethernet standard of 10/100/1000BASE-TX and 1000BASE-FX;
Gigabit Ethernet net Converter BUOF7301E-POE  Fast Ethernet Converter BUOF7201E  Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Supports 10/100/1000Mbps full/half duplex automatic adaptation;
Gigabit Ethernet Converter BUOF7301E-POE  Fast Ethernet Converter BUOF7201E  Fast Ethernet Converter BUOF7201E  Fast Ethernet SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Auto MDI/MDIX functionality.
ret Converter BUOF7301E-POE  Ethernet port with PoE, support IEEE802.3 af/at standard, maximum 30W output; Use SFP optical module, support hot plug and different SFP module optional; Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using SFP optical module, support hot plug, different performance SFP optical modules are optional; Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards; Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			network data, fiber optic and power; Support DC48V $\sim$ 55V wide range volta-
Compatible with IEEE 802.3 10BASE-T and IEEE 802.3u 100BASE-TX/FX Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;		net Converter BUOF7301E-	Ethernet port with PoE, support IEEE802.3 af/at standard, maximum 30W output;
Fast Ethernet Converter BUOF7201E  Fast Ethernet standards;  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Use SFP optical module, support hot plug and different SFP module optional;
Fast Ethernet Converter BUOF7201E  New Tool Mode and Service and power; Support wide voltage DC12V-24V input;  Using SFP optical module, support hot plug, different performance SFP optical modules are optional;  Converter BUOF7201E  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			
Converter BUOF7201E  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation; Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;		Converter	network data, fiber optic and power; Support wide voltage DC12V-24V in-
BUOF7201E  Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX Ethernet standards;  Supports 10/100 Mbps full/half duplex automatic adaptation;  Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			
Auto MDI/MDIX functionality.  1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input; Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			
1 x 100 Mbps fiber optic and 1 x network port which can transform between network data, fiber optic and power; Support wide voltage DC12V-24V input;  Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Supports 10/100 Mbps full/half duplex automatic adaptation;
network data, fiber optic and power; Support wide voltage DC12V-24V input; Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;			Auto MDI/MDIX functionality.
Fast Ethernet Using 1X9 fiber modules and SC interface, with the single mode double optical fiber, up to 20 km transmission distance;		Fast Ethernet Converter BUOF7101E	network data, fiber optic and power; Support wide voltage DC12V-24V in-
			Ising 1 YO fiber modules and SC interface, with the single mode double onti-
Compatible with IEEE 002 2 10 BACE T and IEEE 002 2 4 100 BACE TV/EV			Compatible with IEEE 802.3 10 BASE-T and IEEE 802.3 u 100 BASE-TX/FX
Supports 10/100 Mbps full/half duplex automatic adaptation;			
			Auto MDI/MDIX functionality.



## **Ethernet Extenders**

		Apply in 10/100M network, provide power for the terminal device in 0 $\sim$ 50 of distance;
		Adopt Mid-Span:1,2,3, 6 pin to transfer ethernet; 4,5,7,8 pin to transfer power;
	BUTP3-EP01- C2	According to the terminal device consumption, it can select 15V,24V,48V, at the same time is related with the distance;
		Multi power supply can use at the same time via power distribution wire; Provide power for IP cameras, wireless AP and IP telephones.
		Set of two parts: SV-Unit and IPC Unit.
		SV-Unit with 1 x 48-57V DC port - 1 x PoE input port and 2 x output ports: BNC and RJ-45;
		IPC-Unit with 1 x input BNC and 1 x RJ-45 input port and 1 x PoE output port;
	over	Adopt advanced transmission and power supply technology, can transmit ethernet signal and power signal up tp 500 mtr. over coaxial cable and transmit ethernet signal and power signal up to 400 mtr. over network cable;
and the second	P7301EPOC	Ethernet delay less than 1ms; meet point to point application;
		Standard: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX and IEEE802.3af/at;
		Excellent circuit isolation protection, superior product anti-thunder, anti- static and anti-interference ability; Plug and play, no settings required
		$3\times10/100$ Mbps Ethernet ports, $1\times10$ PoE input port, $2\times10$ PoE output ports, which can meet the requirements of local monitor, long distance transmission and PoE power supply;
	PoE Repeater BUTP7201ER-	Use advanced network cable drive technology. Distance up to 300 mtr.; PoE power supply compatible with End-Span and Mid-Span;
	PoE	Meets IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX and IEEE802.3af/at standards;
		Excellent circuit isolation protection, effectively improve product lighting protection;
		ESD and anti-interference ability.
Die Die		Use coaxial cable to transfer Ethernet signal and power, maximum distance up to 2km; Network delay less than 1ms;
	Ethernet Ex- tender BUT- P7201EPOC	Variety of transmission medium, coaxial cable, power line, telephone cable or UTP cable;
		Meet single style, link style and star style networking modes at the same time;
		Meets IEEE802.3 10BASE-T and IEEE802.3u 100BASE-TX standards;
		Excellent design - MIT rack mount - Easy to install.
		Supporting multiple power source DC9V~36V/AC9V~24V;
	Ethernet Ex- tender BUT-	Transferring 1ch CVBS video signal and 1ch IP video signal over a coaxial cable;
		Max transmission distance up to 500 mtr.;
	P701EVOC	Supporting IEEE802.3 10/100Base-TX Ethernet Protocol;
		Adopting existing coaxial cable network, project savings, plug and play,easy operation;



## **Ethernet Extenders**

		Use coaxial cable transmit Ethernet signal. Distance up to 2km;
	_	Network delay less than 1ms;
	EoC Ethernet Extender	Variety transmission medium, coaxial cable, power line, telephone cable or UTP cable;
Will Debel	BUT-	Single link and star network modes at the same time;
	P7201EOC	Support IEEE802.3 10BASE-T and IEEE802.3u 100BASE-TX standards;
		Excellent design - MIT rack mount - Easy to install.
		$3\times10/100$ Mbps ethernet ports - $1\times$ PoE port - $1\times$ long distance ethernet port and $1\times$ local ethernet port, which can meet the requirements of local monitor, long distance transmission, and PoE power supply;
	Fast Ethernet Repeater BUTP7101ER	Use advanced network cable drive technology. Distance up to 350 mtr.;
		Use PoE power supply or 12V~24V AC/DC power adapter;
		Compatible PoE power supply to End-Span and Mid-Span;
		Meets IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX and IEEE802.3af standards; Protection: Excellent circut isolation protection, effectively improve product's lightning protection, ESD and anti-interference ability;
		Excellent design - MIT rack mount - Easy to install.



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## **Normal Ethernet Switches**

	Unmanaged	Major ports: 1 pc 100Mbps uplink fiber port, 4 pcs 100Mbps downlink Ethernet ports. Each port supports MDI/MDIX;
	Unmanaged	Special function: One key CCTV model;
Branghan (a)	4-Port Ether-	$1{\sim}4$ downlink ports can only communicate with uplink ports;
<u> </u>	net switch	5V ∼12VDC;
		Transmission Distance: 0 $\sim$ 100m; fiber port 20km;
	FX	Meets IEEE802.3 and IEEE802.3u standards;
		Excellent anti-thunder, anti-static and anti-interference ability.
	Unmanaged	Major ports: 1 pc 100Mbps uplink Ethernet port, 8 pcs 100Mbps downlink Ethernet ports. Each port supports MDI/MD;
		Special function: One key CCTV model;
Ethoret Such (no.)	8-Port	$1{\sim}8$ downlink ports can only communicate with Uplink ports;
	Ethernet Switch	5V ~12VDC;
	BUTP3-SW08-	Downlink Port: 0~100m; Uplink Port: 0~100m;
1 Access	TX	Meets IEEE802.3 and IEEE802.3u standards;
		Excellent anti-thunder, anti-static and anti-interference ability.
		4 x 10/100Mbps Ethernet ports, support IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX standard;
	Unmanaged	2 x Uplink ports, 1.000Mbps optical port and Ethernet port; Uplink Ethernet port can connect with NVR and other high bandwidth device conveniently;
Was Mark	4-Ports Ether- net Switch	Transmission distance of uplink Ethernet port up to 150m, user can connect to the long distance switch or NVR conveniently;
	BUTP7204E	Up to 512K Package data cache, making more smooth of forwarding high-capacity data;
		Up to 2K for the MAC address, easy for system upgrade; Delay less than 20ms.
		$8 \times 10/100 \text{Mbps}$ Ethernet ports, support IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX standard;
	Unmanaged	$2 \times \text{Uplink ports}$ , 1.000Mbps optical port and Ethernet port. Uplink Ethernet port can connect with NVR and other high bandwidth device conveniently;
		Transmission distance of uplink Ethernet port up to 150m. Can connect to the long distance switch or NVR conveniently;
	net Switch BUTP7208E	Up to 1M Package data cache, making more smooth of forwarding high-capacity data;
		Up to 8K for the MAC address, easy for system upgrade; Delay less than 20ms;
		Support IEEE802.3X full duplex flow control; support (Auto MDI/MDIX) function.
		24 x 10/100Mbps Ethernet ports, support IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX standard;
		$4\times$ Uplink ports - $2\times1.000$ Mbps optical port and $2\times1.000$ Mbps Ethernet port; Uplink Ethernet port can connect with NVR and other high bandwidth device conveniently;
Mary .	24-Ports	Transmission distance of uplink Ethernet port up to 150m, users can connect to the long distance switch or IP camera conveniently;
	Ethernet Switch BUTP7224E	High-speed data forwarding, suitable for large video data flow forwarding of security surveillance; Support IEEE802.3X full duplex flow control; support Auto MDI/MDIX function;
		Superior circuit protection, lighting protection up to 2KV;
		Rapdi deployment, easy operation, suitable for desktop, wall or DIN rail installation.



### **Normal Ethernet Switches**



Downlink ports: 4 x 10/100Mbps Ethernet port - advanced network cable drive technology;

#### **UnManaged**

Uplink ports:  $1 \times 1/100$ Mbps RJ-45 Ethernet port +  $1 \times SFP$  port (optional on request);

Distance **Ethernet** 

P7304E

Transmission distance: Downlink port: 200 mtr - Uplink Ethernet port: 150 4-Ports Long mtr. - SFP port: Depends on SFP module;

> Standards: IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x, IEEE802.3 Full duplex flow control, Auto MDI/MDIX function;

Switch BUT- Switch way: Store and forward;

Redundant power design, power heat backup or raise power consumption: Fold metal outershell heat dissipation without fan designed;

Rapid deployment, easy operation, suitable for desktop, wall, or DIN rail

Downlink ports: 24 x 10/100/1.000 Mbps RJ-45 ports or 100/1.000 Mbps SFP ports - 8 x RJ45 Ethernet port module - 8 x 1.000 Mbps SFP Fiber Module;

Uplink ports: 2 x 10/100/1.000 adaptive Ethernet port - 2 x 1.000 SFP ports



### Managed

Flexible modular design, provides 8 gigabit SFP ports, 8 gigabit RJ45, 4 gi-

**24-Ports Full** gabit SFP & 4 gigabit RJ45, three pluggable modules optional;

Gigabit ModuProvide network manage console port, support network management operation based on port VLAN;



lar Ethernet Support IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3ab 1.000BASE-T, IEEE802.3z 1.000BASE-SX/LX - IEEE802.1Q - IEE802.1p and IEEE802.3ad standards;

**BUOF7524GE-** Supports IEEE802.3 X full duplex flow control;

Auto MDI/MDIX functionality; MX

Housing: Standard 19"- 1U Chassis design;

100V-240VAC input, built-in redundant power supplies; Lightning Protection: Level 3 Per: IEC61000-4-5 ESD Protecion: Level 3 PER: IEC61000-4-2





## **PoE Ethernet Switches**

		Downlink ports: 4 x 10/100Mbps PoE port;
	Unmanaged	Uplink ports: 1 x 10/100Mbps RJ-45 Ethernet port and 1 x 1.000 Mbps SFP port;
No. of the last of	4-ports PoE	Transmission distance: Uplink RJ-45 Port: 150 mtr SFP depends on Optical Tranceiver Module;
	switch BUT-	Power Adapter Voltage: 48V-55V DC;
		Power Consumption: IEEE802.3af: standard < 60W, IEEE802.3at standard < 120W. (Extra power purchase requested);
		PoE Protocol: IEEE802.3af/at protocol.
		Downlink ports: 4 x 10/100/1.000Mbps PoE adaptive RJ-45 Ethernet ports;
and the same state of the same		Uplink ports: 2 x Ethernet ports (1 x Combo port) - 2 x SFP ports (1 x Combo port)
Man H. CLLL	4-ports PoE switch BUT-	Transmission distance: Ethernet port: 100mtr SFP port: Depends on optical module;
	P7204GE-	Power Adapter Voltage: 48V - 55VDC;
		PoE Standard: Support high PoE. Each PoE port can support 60W;
	Chipset	PoE Protocol: IEEE802.3af/at protocol.
		Downlink ports: 4 x 10/100 Mbps PoE RJ-45 Ethernet ports;
		Uplink ports: 1 x 100 Mbps RJ-45 Ethernet port - 1 x 100 Mbps SFP port
	Unmanaged	Transmission distance: Downlink Ethernet port: 200mtr Uplink Ethernet port: 150 mtr - SFP port: Depends on Optical Transceiver module;
	Ommunagea	Power Adapter Voltage: 48V - 55VDC;
THE STATE OF THE S	4-ports PoE switch BUT-	PoE Standard: Support high PoE. Each PoE port can support 60W; PoE Protocol: IEEE802.3af/at protocol.
		Designed for designed for HD IP camera access and enable these devices to have power supply without connecting to the power socket. It makes the connection of those devices far away from the power more flexible and simplifies wiring. Through integrating with optical port, it perfectly combines media converter and Ethernet switch which solve the problem of long distance transmission. It can be used in surveillance, network engineering etc.
		Downlink ports: 8 x 100 Mbps PoE RJ-45 Ethernet ports
	Unmanaged 8-ports PoE	Uplink ports: 1 x 10/100/1.000 Mbps RJ-45 Ethernet Port - 1 x 1.000 Mbps SFP port; Transmission distance: Downlink Ethernet ports: 150 mtr Uplink Ethernet port: 150 mtr SFP port: Depends on Fiber SFP module port Power Adapter Voltage: 48 - 55VDC;
	switch BUT- P7208E-POE	Power Consumption: IEEE802.3af standard < 120W, IEEE802.3at standard < 240W. (Extra power purchase requested);
		PoE Protocol: IEEE802.3af/at protocol.



## **PoE Ethernet Switches**

		Downlink ports: $16 \times 10/100$ Mbps RJ-45 PoE Ethernet ports, support power supply for the network device meet IEEE802.3 af/at standard.
		PoE network port support IEEE802.3 af/at standard, it can provide 30W consumption, and power supply for the big consumption infrared camera;
	switch BUT-	Uplink ports: $2 \times 10/100/1.000$ Mbps SFP port and $2 \times 10/100/1.000$ Mbps RJ -45 Ethernet port; Transmission distance: uplink RJ-45 ethernet port: 150 mtr.
<b></b>	L2  Marvel Enterprice Chipset	High-speed data forwarding, very suitable for security surveillance large flow video data forwarding; Support IEEE802.3X full duplex flow control; support (Auto MDI/MDIX) function; Superior circuit protection, up to 2KV shock-proof; Web management software, can achieve realtime monitor of the working
		status of each port, and also control the power connection of each PoE port.
		Downlinks ports: 24 x 10/100Mbps PoE Ethernet ports, support power supply for the network device meet IEEE802.3 af/at standard—Support up to 30W of power consumption/port. Suitable for big power consuming infrared camera's.
		Uplink ports: 2 x 10/100/1.000Mbps RJ-45 ethernet port  - 2 x 0/100/1.000Mbps SFP port;
		Supports Layer 2 network management and PoE management software. Web based and provides high-speed data forwarding. Achieves real time satus monitoring of each active port.
	switch BUT- P7224E-POE-	PoE functions: PoE on/off, Total power consumption of configuration and priority settings; Transmission distance: Downlink RJ-45 ethernet port: 150 mtr Uplink RJ-
		45 Ethernet ports: 100 mtr SFP ports: Depends on SFP module: High-speed data forwarding, very suitable for security surveillance large flow video data forwarding;
		Support IEEE802.3X full duplex flow control;
		Auto MDI/MDIX functionality.
		Superior circuit protection. Lightning protection up to 4KV; Widely used for security surveillance, network engineering projects etc.



### **PoE Ethernet Switches - Economic versions**

4-Ports Et		Major ports: 1 pc 100Mbps uplink Ethernet port, 4 pcs 100Mbps down link Ethernet ports , every port supports MDI/MDIX;
	4-Ports Ether-	Special function: One key CCTV model; $1{\sim}4$ downlink ports can only communicate with uplink ports;
	net Switch	Power input: 48V~57V DC;
STATE OF THE PARTY	BUTP3-SW04-	Transmission Distance : Ethernet port 0 $\sim$ 100m;
	TP60	Standard: Meets IEEE802.3 ,IEEE802.3u,IEEE802.3 af/at standards, PoE use End-Span, the spare cable can be of other use;
		Protection: Excellent anti-thunder, anti-static and anti-interference ability;
		Major ports: 1 pc 100Mbps up link Ethernet port, 8 pcs 100Mbps down link Ethernet ports, every port supports MDI/MDIX;
		Special function: One key CCTV model; $1{\sim}8$ downlink ports can only communicate with uplink ports;
	net Switch	Power input: 48V~57VDC;
	BUTP3-SW08-	Transmission Distance : Ethernet port 0 $\sim$ 100m;
		Standard: Meets IEEE802.3, IEEE802.3u, IEEE802.3 af/at standards, PoE use End-Span;
		Protection: Excellent anti-thunder, anti-static and anti-interference ability.
	SWITCH BUTP3-SW04- FP60	Major ports: 1 pc 100Mbps up link optical port, 4 pcs 100Mbps down link Ethernet ports, every port supports MDI/MDI
Family was South		Special function: One key CCTV model; $1{\sim}4$ downlink ports can only communicate with uplink ports;
		Power input: 48V~57VDC;
		Transmission Distance : Ethernet port 0 $\sim$ 100m, optical port 20km;
and and		Standard: Meet IEEE802.3 ,IEEE802.3u,IEEE802.3 af/at (PoE switch) standards, PoE use End-Span;
		Protection: Excellent anti-thunder, anti-static and anti-interference ability.
treplace.	8-Ports PoE	Downlink ports: 8 x 10/100Mbps RJ-45 PoE Ethernet port, CCTV mode: 10 Mbps every port supports MDI/MDIX;
		Uplink port: 1 x 100 Mbps SFP port
		Transmission distance: Downlink Ethernet ports 100 mtr Uplink Fiber port: Single module single fiber: 20 km.; single module double fiber: 20 km
		Special function: One key CCTV model; $1{\sim}8$ downlink ports can only communicate with uplink ports;
		Power input: 48V $\sim$ 57VDC;
		Standards: IEEE802.3, IEEE802.3u, IEEE802.3 af/at standards, PoE use End -Span;



# PoE Adapters

		Protection: Excellent circuit isolation protection, effectively improve product's lightning, ESD and anti-interference ability;
	PoE Splitter	Power Supply: Compatible with mode A (End-Span) and mode B (Mid-Span);
		Standard: IEEE 802.3 af, IEEE 802.3 and IEEE 802.3u;
	PD	Power Output: 12VDC - Use terminal block to connect;
		Compact size, easy to install. Meets MIT rack installation standard;
		Operation: Plug and play, no need settings.
		Power Supply: Compatible with mode A (End-Span) and mode B(Mid-Span);
	Single Port	Standard: IEEE 802.3 af, IEEE 802.3 and IEEE 802.3u;
	PoE Splitter/ af BUTP701E-	Power Output: 5VDC, 9VDC, 12VDC optional;
Programme	PD/af	Compact size, easy to install
	r D/ ai	Plug and play, no need settings.
		Transmission Rate: 10/100Mbps
		Power input: 100V~240VAC@50/60Hz. Power outPut: 48VDC;
	Single Port	Power Rate: 15.4W;
	PoE Injector/ af BUTP701E-	Transmission Medium: Cat5/5e/6 Cable;
	PSE/af	Standard: IEEE802.3af
	PSL/al	Protection: Wide voltage AC Input. Strong lighting proteciton, ESD, anti-inteference;
	PoE Injector BUTP701E- PSE	Transmission Rate: 10/100Mbps, 10/100/1.000Mbps
		Power input: 100V~240VAC@50/60Hz. Power OutPut: 48VDC
		Power Rate: 15.4W;
		Transmission Medium: Cat5/5e/6 Cable;
		Standard: IEEE802.3af
		Protection: Wide voltage AC Input. Strong lighting proteciton, ESD, anti-inteference;
	8-Ports PoE	$8 \times 10/100 \text{mbps PoE}$ power supply ports, turn the common ethernet signal to standard PoE signal;
		Web control software can real-time monitor the working status of every port. Provides also control the switch of the PoE power supply on every port, offering efficient resolution for complex engineering;
	<b>Ethernet In-</b>	19" standard 1u rack, suitable for rack mount and desktop installation;
	jector BUT- P7208E-PSE	Max. power consumption /single PoE port: up to 25W;
		Max. power consumption of whole injector: up to 200 Watt;
		Support IEEE 802.3af, IEEE 802.3at, IEEE 802.3 10BASE-T, 1EEE 802.3u and 100BASE-TX standards;
		Excellent circut isolation protection, lightning ability up to 2KV.



# **PoE Adapters**

		$16 \times 10/100 \text{mbps}$ PoE power supply ports, converst common ethernet signal into standard PoE signal;
	16-Ports PoE	Web control software can real-time monitor the working status of every port. Provides also control the switch of the PoE power supply of every port, offering efficient resolution for complex engineering;
	Ethernet In-	19" standard 1u rack, suitable for rack mount and desktop installation;
HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	jector BUT- P7216E-PSE	Max. power consumption /single PoE port: up to 25W.;
	P/210E-PSE	Max. power consumption of whole injector: up to 320 W.;
		Support IEEE 802.3af, IEEE 802.3at, IEEE 802.3 10BASE-T, 1EEE 802.3u and 100BASE-TX standards;
		Excellent circut isolation protection, lightning ability up to 2KV.
		$24 \times 10/100 \text{mbps PoE power supply ports, turn the common ethernet signal to standard PoE signal;}$
	24-ports PoE Ethernet In- jector BUT- P7224E-PSE	Web control software for real-time monitor of each port status. Also provides control the switch of the PoE power supply of every port, offering the efficient resolution for complex engineering;
		19" standard 1u rack, suitable for rack mount and desktop installation;
		Max. power consumption/single PoE port: up to 25W.;
		Max. power consumption of whole injector: up to 400 W.;
		Supports IEEE 802.3af, IEEE 802.3at, IEEE 802.3 10BASE-T, 1EEE 802.3u and 100BASE-TX standards;
		Excellent circut isolation protection, lightning ability up to 2KV.



# **Surge Protectors**

		Protection signal: Ethernet signal and 24V~220V AC/DC power;
8	Ethernet and	Max continuous running voltage: 6V;
The state of the s	Power Surge	Bandwith : (0.3-100) M;
	Protector BUSP201EP	Response time: ≤1ns;
	DOSP ZUILP	Dimensions: 108 x 66 x 28 mm.
		Protection: PoE and PoE+;
	PoE Surge	Max continuous running voltage: 6V;
	Protector	Bandwith : (0.3-100) M;
	BUSP201E- POE	Response time: ≤1ns;
	. 02	Dimensions: $105 \times 52 \times 28$ mm.
	Single chan-	Protection Ethernet signal,rated working voltage: 5V;
	nel Network	Max continuous running voltage: 6V;
	Signal Surge	Bandwith: 100MHz;
	Protector	Response time: ≤25ns;
	BUSP201E	Dimensions: $84 \times 25 \times 25$ mm.
		Protection Baseband composite video signal;
		Max continuous running voltage: 24V;
	Video, control	Signal Bandwith : More then 10 MHz;
		Inserting resitance: ≤1Ω
	and power	Features: Multifunction multilevel overvoltage protection, large max dischar-
		ge current, low limiting voltage, quick reacting time, low insertion loss;
	tor	The device features multi-level protection, high capacity for through-flow, low limiting voltage, guick reaction time, less insertion loss. It adapts to
	BUSPZUIPVD	overvoltage protection for security video signal and power, protecting the
	24	device from the damage of induced overvoltage, switching overvoltage and
		static discharge. It's widely used in security monitoring system, environment monitoring system.
		Dimensions: 112 x 64 x 38 mm.



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Wireless Video Outdoor Network solutions suitables at cities, harbors, airports and industrial areas. Providing stable Point to Point and Point to Multipoint connections up to 300 Mbps and 40 kilometers of distance with license free and licensed connections.



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Full stand alone camera system. Can be either used as point to point communication as well as within remote network environments. Specially designed for observation and covert operations.



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