

# 884015814/10 | CS34R GRY C6 4/23 U/UTP CPK 1KFT



CS34R ETL Verified **Category 6 U/UTP** Cable, non-plenum, **gray jacket**, 4 pair count, 1000 ft (305 m) length, CommPak



## Product Classification

**Regional Availability**

Asia | Australia/New Zealand | EMEA | Latin America

**Portfolio**

NETCONNECT®

**Product Type**

Twisted pair cable

## General Specifications

**Product Number**

CS34R

**ANSI/TIA Category**

6

**Cable Component Type**

Horizontal

**Cable Type**

U/UTP (unshielded)

**Conductor Type, singles**

Solid

**Conductors, quantity**

8

**Jacket Color**

Gray

**Note**

All electrical transmission tests include swept frequency measurements

**Pairs, quantity**

4

**Separator Type**

Tape separator

**Transmission Standards**

ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E



## Dimensions

**Cable Length**

304.8 m | 1000 ft

**Diameter Over Insulated Conductor**

1.054 mm | 0.041 in

**Diameter Over Jacket, nominal**

5.588 mm | 0.22 in

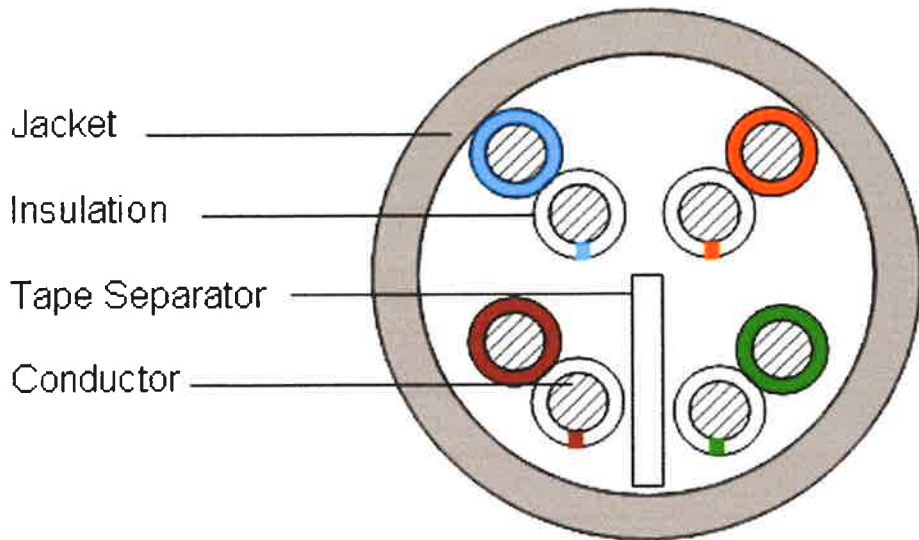
**Jacket Thickness**

0.508 mm | 0.02 in

**Conductor Gauge, singles**

**23 AWG**

Cross Section Drawing



Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	8 ohms/100 m   2.438 ohms/100 ft
<b>Delay Skew, maximum</b>	30 ns
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	69 %
<b>Operating Frequency, maximum</b>	250 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Remote Powering</b>	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
<b>Safety Voltage Rating</b>	300 V



## Electrical Cable Performance

<b>CS</b>	CommScope	<b>NEXT</b>	Near End Crosstalk (dB/100m)
<b>STD</b>	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	<b>PSNEXT</b>	Power Sum Near End Crosstalk (db/100m)
<b>TYP</b>	Typical Electrical Performance	<b>ACRF</b>	Attenuation to Crosstalk Ratio - Far End (dB/100m)
<b>IL</b>	Insertion Loss (dB/100m)	<b>RL</b>	Return Loss (dB)
<b>ACR</b>	Attenuation to Crosstalk Ratio (dB/100m)	<b>ELTCTL</b>	Equal Level Transverse Conversion Transfer Loss (dB/100m)
<b>PSACR</b>	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
<b>PSACRF</b>	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
<b>TCL</b>	Transverse Conversion Loss (dB/100m)		

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL		
	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP
1	2	2	1.8	75.3	74.3	69.3	73.3	72.3	87.6	72.3	72.3	87	70.3	70.3	85.3	68	67.8	84.3	65	64.8	82.4	20	20	34
4	3.8	3.8	3.5	66.3	65.3	80	62.5	61.5	76.5	63.3	63.3	77.7	59.5	59.5	74.1	56	55.8	72.6	53	52.8	70.8	23	23	38.9
8	5.3	5.3	5	61.8	60.8	75.5	56.4	55.4	70.5	58.8	58.8	73.2	53.4	53.4	68.2	49.9	49.7	66.8	46.9	46.7	64.9	24.5	24.5	35.5
10	6	6	5.6	60.3	59.3	73.9	54.3	53.3	68.3	57.3	57.3	71.5	51.3	51.3	65.9	48	47.8	64.9	45	44.8	63	25	25	36.5
16	7.6	7.6	7.2	57.2	56.2	70.6	49.7	48.7	63.4	54.2	54.2	68.3	46.7	46.7	61.1	43.9	43.7	60.8	40.9	40.7	58.9	25	25	37.6
20	8.5	8.5	8.1	55.8	54.8	69.2	47.3	46.3	61.2	52.8	52.8	66.9	44.3	44.3	58.8	42	41.8	58.9	39	38.8	56.9	25	25	38.2
25	9.5	9.5	9	54.3	53.3	67.6	44.8	43.8	58.6	51.3	51.3	65.3	41.8	41.8	56.2	40	39.8	57	37	36.8	55	24.3	24.3	38.2
31.25	10.7	10.7	10.1	52.9	51.9	66.3	42.2	41.2	56.1	49.9	49.9	63.9	39.2	39.2	53.8	38.1	37.9	55	35.1	34.9	53	23.6	23.6	38.3
62.5	15.4	15.4	14.5	48.4	47.4	61.4	33	32	46.9	45.4	45.4	59	30	30	44.5	32.1	31.9	48.9	29.1	28.9	46.9	21.5	21.5	34.7
100	19.8	19.8	18.6	45.3	44.3	58.1	25.5	24.5	39.5	42.3	42.3	55.7	22.5	22.5	37.1	28	27.8	44.7	25	24.8	42.8	20.1	20.1	31.6
155	25.2	25.2	23.5	42.4	41.4	55.7	17.3	16.3	32.2	39.4	39.4	53	14.3	14.3	29.5	24.2	24	41	21.2	21	39	18.8	18.8	29.6
200	29	29	26.9	40.8	39.8	52.6	11.8	10.8	25.7	37.8	37.8	50.4	8.8	8.8	23.4	22	21.8	38.6	19	18.8	36.7	18	18	29.3
250	32.8	32.8	30.3	39.3	38.3	50.8	6.5	5.5	20.5	36.3	36.3	48.6	3.5	3.5	18.3	20	19.8	36.5	17	16.8	34.7	17.3	17.3	28.8
300			33.5			49			15.6			46.8			13.4			34.5			32.6			28.9
350			36.4			47.6			11.2			45.4			9			33			31			29
400			39			46.3			7.3			44.1			5.1			31.3			29.3			30.3
500			44.3			43.2			-1.1			41.2			-3.1			27.3			25.5			31
550			44.6			43.1			-0.5			41.2			-2.5			27.4			25.5			31
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25

## Material Specifications

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	Polyolefin
<b>Jacket Material</b>	PVC
<b>Separator Material</b>	Polyolefin

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	11.34 kg   25 lb
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## Environmental Specifications

# 884015814/10 | CS34R GRY C6 4/23 U/UTP CPK 1KFT

<b>Installation temperature</b>	0 °C to +60 °C (+32 °F to +140 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Environmental Space</b>	Non-plenum
<b>Flame Test Method</b>	CMR   NEC Article 800   UL 1666   UL 444

## Packaging and Weights

<b>Cable weight</b>	35.091 kg/km   23.58 lb/kft
<b>Packaging Type</b>	CommPak® box

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



A handwritten signature in blue ink, appearing to read "Puber".





## overview

The Panduit® SmartZone™ UPS with maintenance free VRLA battery, 1-3kVA single phase 120 V and 230 V units is a pure Online Double Conversion system that delivers highly efficient and reliable power protection and power backup for your computer IT equipment. With excellent electrical performance, enhanced intelligent monitoring and network functions, complying with ENERGY STAR® 2.0, EMC and safety standards to meet the continually growing power demands of Data Center, Enterprise and Edge IT equipment.



## key features and benefits

<b>Rack/Tower convertible</b>	Supports rack/tower installation with rotatable colorful LCD display
<b>Online Double Conversion with fully digital control</b>	Provides stable and clean power with less ripple by filtering noise, automatic voltage regulation (AVR) and surge protection
<b>Wide input voltage range</b>	110-300 VAC for EU units and 55-150 VAC for NA units, covering extended voltage range, applicable for severe situation such as large power grid fluctuation
<b>High efficiency</b>	Up to 96.5%, reducing the energy waste and the cost of electricity
<b>Energy savings</b>	High Efficiency on Smart ECO mode for <b>Online Double Conversion</b> models
<b>Green design</b>	RoHS and Reach, CE/UL/ENERGY STAR® 2.0 compliant for North America units
<b>Output unity power factor</b>	Means more active power for IT equipment load
<b>Input power factor</b>	Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)
<b>Expandable battery packs</b>	Allows to connect maximum four external battery packs, extending the UPS backup running time
<b>Intelligent Battery Management</b>	The most optimal curve and temperature-compensated with advanced algorithms prolonging the battery life
<b>EPO function (Emergency Power Off)</b>	Allows to quickly and easy shut down the UPS when emergency event occurs
<b>Generator compatible</b>	Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operation
<b>Hot-Swappable battery design</b>	Can perform the replacement of battery cartridge without powering down the UPS
<b>Cold start function</b>	Allows to boot up the UPS without mains input but with batteries
<b>Intelligent fan speed regulation</b>	Automatically adjustment of fan speed due to the ambient temperature and load percentage
<b>Programmable outlet group with Smart Load Shedding</b>	Loads connected to the programmable group can lose power first, saving more energy and extending the runtime for critical load. Smart Load Shed allows logical group shutdown with time or load.
<b>Segment colorful LCD</b>	Colorful LCD with four buttons and LED indicators, providing intuitive display
<b>Multiple communication interface</b>	<b>RS232/USB/intelligent slot</b> , realizing communication and monitoring function
<b>Comprehensive protection function</b>	Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage, fan fault alarm and <b>RJ45</b> surge protection
<b>Intelligent Network Management Card (included with N Models*)</b>	Provides harden security remote access via Ethernet Secure SNMPv3 protocol to monitor and manage the UPS, micro-USB for firmware upgrade and RS-485 for connecting environmental and security sensors. Built-in WiFi and Bluetooth hardware support with future optional firmware upgrade.
<b>SmartZone™ Cloud Ready (included with N Models*)</b>	Support for technology allowing to easily, securely and quickly connect to SmartZone™ Cloud DCIM with management, monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset and Connectivity Infrastructure Assets.
<b>SmartZone™ mPower Management Software</b>	Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or Ethernet. Software is available for free download from <a href="http://www.panduit.com/smartzone-ups">www.panduit.com/smartzone-ups</a> .

\* N Model UPS has an N in the 4th digit of the part number, e.g. U01N12V

# SmartZone™ UPS 1-3kVA VRLA

## product specifications

### • 1-3k 230 V VRLA

MODEL		U01S12V/U01N12V	U02S12V/U02N12V	U03S12V/U03N12V
Output power capacity		1000 VA	2000 VA	3000 VA
Max Configurable Power (Watts)		1000 W	2000 W	3000 W
Nominal output voltage		230 VAC (220/240 VAC selectable)		
Output Voltage Distortion	Linear load	<3%		
	Non linear load	<5%		
Output frequency	Online mode	50/60 ± 4 Hz		
	Battery mode	50/60 ± 0.1 Hz		
Output power factor		1.0		
Load crest factor		3:1		
Topology		Double Conversion Online		
Waveform		Pure Sine Wave		
Overload capability	Online mode	105% - 125%: 1 min; 125% - 130%: 30 s; > 130%: 200 ms, transfer to bypass		
	Battery mode	105% - 125%: 1 min; 125% - 130%: 10 s; > 130%: 200 ms, shut down		
Transfer time (typical)	Online mode <-> Battery mode	0 ms		
	Inverter <-> Bypass	4 ms		
Efficiency	Online mode	90.0%	92.0%	92.0%
	ECO mode	95.0%	96.0%	96.5%
Output connection	Programmable	(4) IEC C13		(4) IEC C13
	Non-programmable	(4) IEC C13		(1) IEC C19; (4) IEC C13
Bypass		Internal		
<b>INPUT</b>				
Nominal input voltage		230 VAC (220 VAC/240 VAC selectable)		
Input voltage range	Full load	176 - 264 VAC		
	Half load	110 - 300 VAC		
Input frequency range		40 - 70 Hz (auto sensing)		
Input connection		C14 socket (2 cords included)		C20 socket (2 cords included)
Input power factor		>0.98 (full load)		
Cord Length		1.8m (6 ft.)		
Number of Power Cords		Schuko CEE 7/EU1-16P and BS1363A		
<b>BATTERY</b>				
Battery type		VRLA		
Typical recharge time		4-6 hrs.		
Battery voltage		36 VDC	48 VDC	72 VDC
Battery quantity × capacity		3 × 12 V/9 Ah	4 × 12 V/9 Ah	6 × 12 V/9 Ah
Charging current (max.)		2 A		
Backup time	Full load	6 min.	2.9 min.	3.4 min.
	Half load	19.1 min.	11.0 min.	10.7 min.
Expected Battery Life (years)		3-5 yrs.		
Internal Replacement Cartridge		UVC036	UVC048	UVC072
Maximum External Battery Pack (EBP) quantity		4 units		



# SmartZone™ UPS 1-3kVA VRLA

## 1-3k 230 V VRLA (continued)

<b>COMMUNICATION &amp; MANAGEMENT</b>			
Communication ports	USB, RS232, intelligent slot		
Pre-Installed SmartZone™ iNMC Card	N model only		
Local Display/Control Panel	Segment colorful screen		
Audible Alarm	Yes		
Emergency Power Off (EPO)	Yes		
<b>ENVIRONMENTAL</b>			
Operating temperature	32°F - 104°F (0°C - 40°C) (no derating)		
Storage temperature	-25°C - 55°C (without batteries)		
Relative humidity	0 - 95% (non-condensing)		
Operating elevation	Up to 3000 m (derated 10%)		
Online thermal dissipation	400 BTU/hr.	593 BTU/hr.	890 BTU/hr.
Protection Class	IP20		
Noise level	<55dB at 1m		
<b>CONFORMANCE</b>			
Safety	CB: IEC62040-1:2013, CE-LVD: EN62040-1:2008+A1:2013, UKCA: BS62040-1-2013		
EMC	IEC 62040-2-2016, EN 62040-2-2018, BS62040-2-2018		
Transportation	ISTA Procedure 2A		
Surge protection	ANSI C62.41 Category A (380 J)		
<b>CUSTOMER SERVICE</b>			
Warranty	3 years for UPS and EBP, 2 years for internal battery cartridges		
<b>SUSTAINABLE OFFER STATUS</b>			
RoHS 2.0	Compliant		
Proposition 65 Warning	See Safety Sheet (IM053)		
<b>PHYSICAL</b>			
Maximum Height	86.5mm		
Maximum Width	440mm		
Maximum Depth	460mm	600mm	
Rack Height	2 RU		
Net Weight	16.1 kg	21.3 kg	24.4 kg
Shipping Weight	22.3 kg	27.6 kg	30.9 kg
Shipping Height	202mm (7.95 in.)		
Shipping Width	555mm (21.8 in.)		
Shipping Depth	590mm (23.2 in.)	590mm (23.2 in.)	730mm (28.7 in.)
Color	Black		

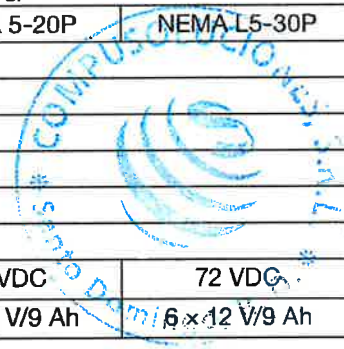




# SmartZone™ UPS 1-3kVA VRLA

## 1-3k 120 V VRLA

MODEL	U01S13V/ U01N13V	U01S11V/ U01N11V	U02S11V/ U02N11V	U03S11V/ U03N11V
Output power capacity	1000 VA		2000 VA	3000 VA
Max Configurable Power (Watts)	1000 W		2000 W	3000 W
Nominal output voltage	120 VAC (100/110/115/125 VAC selectable)			
Output voltage distortion	Linear load	<3%		
	Non Linear load	<5%		
Output frequency	Online mode	50/60 ± 4 Hz		
	Battery mode	50/60 ± 0.1 Hz		
Output power factor	1.0			
Load crest factor	3:1			
Topology	Double Conversion Online			
Waveform	Pure Sine Wave			
Overload capability	Online mode	105% - 125%: 1 min.; 125% - 130%: 30 s; > 130%: 200 ms, transfer to bypass		
	Battery mode	105% - 125%: 1 min.; 125% - 130%: 10 s; > 130%: 200 ms, shut down		
Transfer time (typical)	Online mode <-> Battery mode	0 ms		
	Inverter <-> Bypass	4 ms		
Efficiency	Online mode	90.0%	92.0%	92.0%
	ECO mode	95.0%	96.0%	96.5%
Output connection	Programmable	(2) NEMA 5-15R	(2) NEMA 5-20R	(2) NEMA 5-20R
	Non-programmable	(4) NEMA 5-15R	(4) NEMA 5-20R	(1) NEMA L5-30R; (2) NEMA 5-20R
Bypass	Internal			
<b>INPUT</b>				
Nominal input voltage	100 - 125 VAC			
Input voltage range	55 - 150 VAC			
Input frequency range	40 - 70 Hz (auto sensing)			
Input connection	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P	
Input power factor	>0.98 (full load)			
Cord Length	3m (10 ft.)			
Number of Power Cords	(1) fixed			
<b>BATTERY</b>				
Battery type	VRLA			
Typical recharge time	4-6 hrs.			
Battery voltage	24 VDC	36 VDC	48 VDC	72 VDC
Battery quantity × capacity	2 × 12 V/9 Ah	3 × 12 V/9 Ah	4 × 12 V/9 Ah	6 × 12 V/9 Ah
Charging current (max.)	2A			
Backup time	Full load	2.7 min.	6 min.	4.28 min.
	Half load	10.9 min.	19.1 min.	13.5 min.
Expected Battery Life (years)	3-5 yrs.			
Internal Replacement Cartridge	UVC024	UVC036	UVC048	UVC072
Maximum External Battery Pack (EBP) quantity	4 units			





# SmartZone™ UPS 1-3kVA VRLA

## 1-3k 120 V VRLA (continued)

<b>COMMUNICATION &amp; MANAGEMENT</b>			
Communication ports	USB, RS232, intelligent slot		
Pre-Installed SmartZone™ iNMC Card	N model only		
Local Display/Control Panel	Segment colorful screen		
Audible Alarm	Yes		
Emergency Power Off (EPO)	Yes		
<b>ENVIRONMENTAL</b>			
Operating temperature	32°F - 104°F (0°C - 40°C) (no derating)		
Storage temperature	-25°C - 55°C (without batteries)		
Relative humidity	0 - 95% (non-condensing)		
Operating elevation	Up to 3000m (derated 10%)		
Online thermal dissipation	400 BTU/hr.	534 BTU/hr.	801 BTU/hr.
Protection Class	IP20		
Noise level	<55dB at 1m		
<b>CONFORMANCE</b>			
Energy Saving	ENERGY STAR® 2.0		
Safety	cUL: UL 1778 5th Edition, CSA C22.2 NO.107.3-14		
EMC	FCC Part 15 Subpart B Class A, ANSI C63.4-2014		
Transportation	ISTA Procedure 2A		
Surge protection	ANSI C62.41 Category A (380 J)		
<b>CUSTOMER SERVICE</b>			
Warranty	3 years for UPS, 2 years for internal battery and EBP		
<b>SUSTAINABLE OFFER STATUS</b>			
RoHS 2.0	Compliant		
Proposition 65 Warning	See Safety Sheet (IM053)		
<b>PHYSICAL</b>			
Maximum Height	86.5mm		
Maximum Width	440mm		
Maximum Depth	325mm	460mm	600mm
Rack Height	2 RU		
Net Weight	12.4 kg	16.6 kg	20 kg
Shipping Weight	18.4 kg	22.7 kg	27.9 kg
Shipping Height	202mm (7.95 in.)		
Shipping Width	555mm (21.8 in.)		
Shipping Depth	545mm (21.4 in.)	590mm (23.2 in.)	730mm (28.7 in.)
Color	Black		



# SmartZone™ UPS 1-3kVA VRLA

## EBP specifications

EBP MODEL	UVP024	UVP036	UVP048	UVP072
MATCHED UPS	U01S13V/U01N13V	U01S11V/ U01N11V U01S12V/ U01N12V	U02S11V/U02N11V U02S12V/U02N12V	U03S11V/U03N11V U03S12V/U03N12V
<b>BATTERY SYSTEM</b>				
Battery type	VRLA (lead acid maintenance free battery)			
Typical battery life	3 - 5 years, depend on discharging cycle and ambient temperature			
System voltage	24 VDC	36 VDC	48 VDC	72 VDC
Battery quantity	2 x 2 pcs.	2 x 3 pcs.	2 x 4 pcs.	2 x 6 pcs.
Battery capacity	12 V/9 Ah			
Replacement Cartridge Set	UVD024	UVD036	UVD048	UVD072
<b>PHYSICAL</b>				
Maximum Height	86.5mm (3.42 in.)			
Maximum Width	440mm (17.3 in.)			
Maximum Depth	430mm (16.9 in.)	550mm (21.6 in.)	710mm (27.9 in.)	
Rack Height	2 RU			
Net Weight	17.8 kg	23.3 kg	30 kg	43 kg
<b>ENVIRONMENTAL</b>				
Operating temperature	0°C - 40°C			
Relative humidity	0 - 95% (non-condensing)			
Noise level	<40dB at 1m			
<b>CONFORMANCE</b>				
Safety	CB: IEC62040-1:2013, CE-LVD: EN62040-1:2008+A1:2013, UKCA: BS62040-1-2013, cULus: UL 1778 5th Edition, CSA C22.2 NO.107.3-14			
Transportation	ISTA Procedure 2A			



# SmartZone™ UPS 1-3kVA VRLA

## UPS accessories

URC005	Relay card (MiniAS400) (12 V) (for 1 to 10kVA single phase UPS units)
UNCP01	Panduit® Intelligent Network Management Card (iNMC) See iNMC specs for more details
UTOWFT	Tower stabilizer brackets
URMKIT2	Rack mount rail kit for 1-3kVA & 5-20kVA UPS and EBP

U01N11V (Rear)



U01N12V (Rear)



U02N11V (Rear)



U02N12V (Rear)



U03N11V (Rear)



U03N12V (Rear)



### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA  
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Phone: 44.20.8601.7200

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Republic of Singapore  
Phone: 65.6305.7575

PANDUIT JAPAN  
Tokyo, Japan  
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Guadalajara, Mexico  
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PUSP85—WW-ENG  
4/2022



Milesight

# Milesight 24-Port (SFP) PoE Switch



400W

MS-S0224-GL/MS-S0424-GF

DATASHEET

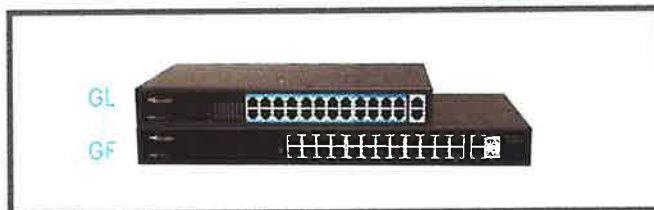
## KEY FEATURES

- ▶ Ports (Provide up to 24\*10/100Mbps PoE ports, 2\*100Mbps uplink ports and 2\*SFP uplink ports)
- ▶ PoE Protocol (IEEE 802.3af and IEEE 802.3at Power over Ethernet (PoE) compliant.)
- ▶ Total PoE Power (Power budget of 400W and 30W for all PoE ports and single port respectively.)
- ▶ Self-adaption Port (RJ45 port supports 10/100Mbps Auto MDI/MDIX.)
- ▶ Wide Application (Available for wireless AP and network cameras through CAT 5 cable.)
- ▶ Extend Mode (Extend PoE up to 250m on one single cable.)
- ▶ SFP Uplink Port (Provide more than enough bandwidth and stability for ultra high speed data transferring.)
- ▶ Surge Protection (Protect the device from lightning surges and other electrical hazards.)
- ▶ Easy to Use (Easily understandable working status, simple and convenient functions with no configuration.)



## Versatile Ports

Featuring up to 24\*10/100Mbps PoE ports which support IEEE 802.3af/at protocol, 2\*Gigabit uplink ports and 2\*SFP uplink ports, the Milesight PoE Switch provides maximum power budget of 400W and 30W for all PoE ports and every single PoE port respectively, allowing users to have several different camera variations configured.



## SFP Uplink Port

With SFP module slot available, the SFP uplink port is ideal for connecting the switch to the network's backbone, providing more than enough bandwidth and stability for ultra high speed data transferring.

## Surge Protection

4KV surge protection keeps PoE Switches from lightning strikes and other electrical surges, offering reliable performance even in some harsh environments.



## Easy to Use

With exquisite structure, the PoE Switch is a truly user-friendly device owns strong functionality. The plug and play with no configuration and the indicator lights will have no doubt to bring great ease of use.





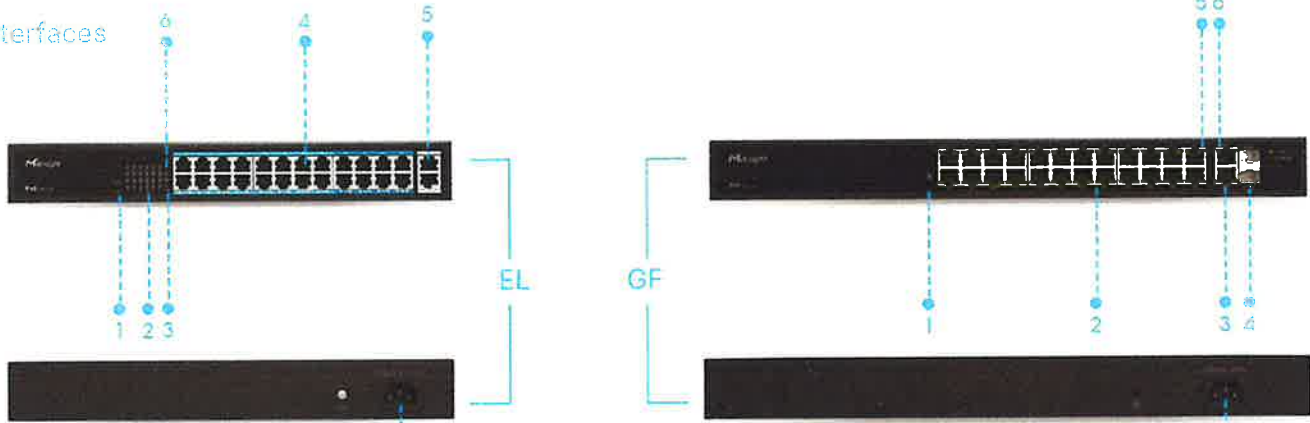
Model	MS-S0224-GL	MS-S0424-GF
Ports	24X10/100Mbps PoE ports (RJ45) + 2X1000Mbps uplink ports	24X10/100Mbps PoE ports (RJ45) + 2X1000Mbps uplink ports + 2X1000Mbps SFP ports
Standard	IEEE802.3 10Base-T IEEE802.3i 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3x	IEEE802.3 10Base-T IEEE802.3i 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-T IEEE802.3x
Switching Capacity	14.8Gbps (non-blocking)	
Packet Forwarding Rate @64byte	6.55Mpps	
Packet Forwarding Cache	4M	
MAC	16K	
Power Supply	Built-in switching power supply AC 100~240V, 50-60Hz, 5A	
PoE Standard	IEEE802.3af/at	
Max. PoE Power	Max. capacity: 400W Max. capacity for single port: 30W	
Functional Switch	<p><b>Standard Mode:</b> Port 1~24: 10/100Mbps auto-sensing @100 meters &amp; Port 25~26: 1000Mbps @100 meters</p> <p><b>Extend Mode:</b> Port 1~16: 10/100Mbps auto-sensing @100 meters &amp; Port 17~24: 10Mbps @250 meters &amp; Port 25~26: 1000Mbps @100 meters</p> <p><b>Note:</b> When the switch status changes, PoE switch must be restarted for the switch function to take effect.</p>	Port 1~24: 10/100Mbps auto-sensing @100 meters & Port 25~26: 1000Mbps @100 meters & Port 27~28: 1000Mbps
Indicator	<p>Power Indicator: PWR (green) Network Indicator: Link (yellow) PoE Working Indicator: PoE (green) Functional Switch Indicator: EXTEND (green)</p>	<p>Power Indicator: PWR (green) Network Indicator: Link (yellow) PoE Working Indicator: PoE (green)</p>
Cooling Fan	1	
Operating Temperature	-20°C~55°C	
Storage Temperature	-40°C~75°C	
Operating/Storage Humidity	10%~ 90%RH (non-condensing)	5%~ 90%RH (non-condensing)
Lightning Protection/Protection Level	Port lightning protection: 4KV 8/20us Protection level: IP30	
Dimensions	329.8mm(W)X204mm(D)X44mm(H)	440mm(W)X225mm(D)X44mm(H)
Weight	2.2kg	4.5kg
Installation Method	Desktop Mounted Type/Wall Mounted Type	
Warranty	2 Years	



# Milesight 24-Port (SFP) PoE Switch



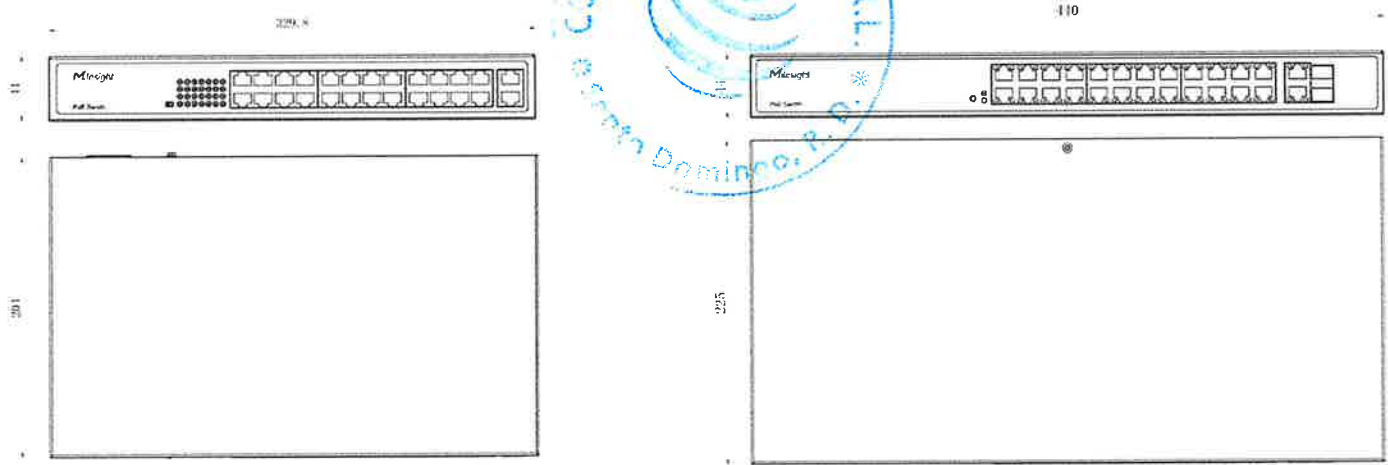
## Interfaces



- 1. Standard Mode/Extend Mode
- 2. PoE Working Indicator
- 3. Power Indicator
- 4. PoE Ports
- 5. Gigabit Uplink Ports
- 6. Network Indicator
- 7. Power Port

- 1. Power Indicator
- 2. PoE Ports
- 3. Gigabit Uplink Ports
- 4. SFP Uplink Ports
- 5. PoE Working Indicator
- 6. Network Indicator
- 7. Power Port

## Structure Diagrams



Units: mm

## Naming Convention



# AI Weather-proof Mini Bullet Network Camera

IP67

IK10



DATASHEET

## KEY FEATURES

- ▶ Powerful IR LEDs (Equipped with 3rd generation dot matrix IR LEDs, guaranteeing excellent image quality, long lifespan and energy efficiency.)
- ▶ 140dB Super WDR (Excellent performance even when the ratio of the luminosity of brightest and darkest is up to 140dB.)
- ▶ Advanced Functions (Boasting to support various advanced functions such as HLC, Defog, ROI.)
- ▶ 256G (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 256G.)
- ▶ Adjustable 3-Axis Bracket (Providing a robust mounting platform for angle adjustments on a 3-axis plane.)
- ▶ Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265+ saves 70%~80% bandwidth that of H.264.)

## AI Video Analytics

- 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.



## 0.005Lux Ultra Low-light

The starlight camera is able to deliver high detailed color images even in low light environment reaching 0.005Lux(Color) or 0Lux(B/W), and near infrared light environments without any supplementary lighting.



## 30fps@4K

Providing 4K HD resolution with frame rate of 30fps, the camera performs well in catching detailed image regardless of the moving speed.



## IP67&IK10

Supporting IP67-rated weather proofing and IK10-rated vandal proof which are the leading level of the industry, the camera is well protected against adverse impact to ensure the performance.







	Model	MS-C2963-RPC (2MP)	MS-C5363-PC (5MP)	MS-C8163-PC (4K)
Camera	Image Sensor		1/2.8" Progressive Scan CMOS	
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.012Lux@F1.6 B/W: 0Lux with IR on
	WDR	140dB Super WDR		120dB Super WDR
	Lens		4mm/2.8mm/6mm@F1.6	
	Mount		M12	
	Field of View	H91°/D106°/V50°(4mm) H111°/D128°/V61°(2.8mm) H55°/D63°/V32°(6mm)	H86°/D108°/V63°(4mm) H105°/D131°/V78°(2.8mm) H52°/D63°/V40°(6mm)	H91°/D106°/V50°(4mm) H110°/D126°/V60°(2.8mm) H55°/D63°/V32°(6mm)
	Shutter Time		1/100000s~1s	
	IR Distance		Up to 50m	
	Day/Night Mode		Day/Night/Auto/Customize/Schedule	
	S/N		>55dB	
Video	Max. Image Resolution	1920x1080	2592x1944	3840x2160
	Primary Stream	60Hz: 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(2592x1944), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)
	Secondary Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	
	Tertiary Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180)		
	Video Compression		H.265*/H.265(HEVC)/H.264*/H.264/MJPEG	
	Video Bit Rate		16Kbps~16Mbps(CBR/VBR Adjustable)	
	Privacy Masking		Up to 28 areas(24 mask areas and 4 mosaic areas)	
	ROI		Up to 8 areas	
	Image Setting		Brightness/Contrast/Saturation/Sharpness	
	Interface	Ethernet		1*RJ45 10M/100M Ethernet Port
Audio I/O			1/1 (Multi-interface Version)	
Alarm I/O			1/1 (Multi-interface Version)	





# AI Weather-proof Mini Bullet Network Camera

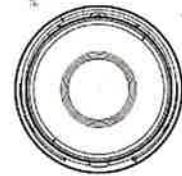
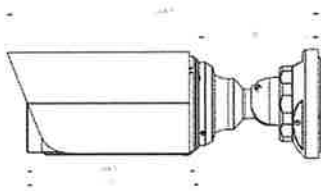
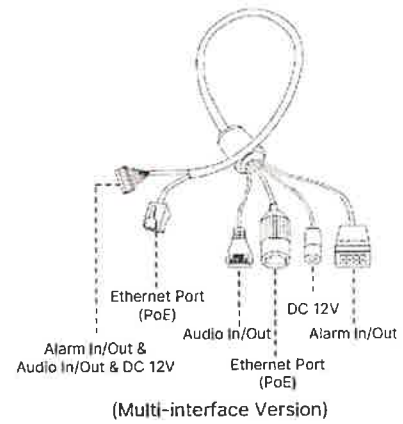
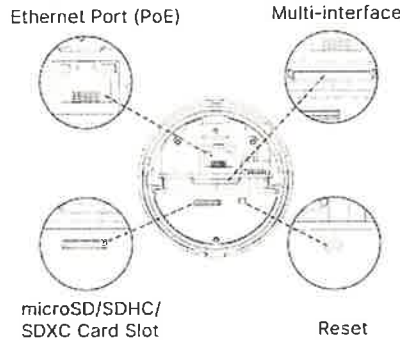
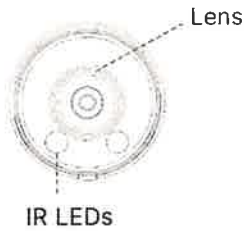


<b>Network</b>	Network Storage Protocol	NAS(Support NFS, SMB/CIFS), ANR IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
<b>Audio</b>	Audio Compression Audio Sampling Rate Audio Bit Rate Two-way Audio	G.711/AAC/G.722/G.726 8/16/32/44.1/48KHz 16~256kbps Support
<b>Intelligent Analytics</b>	Video Analysis Face Detection People Counting& Report	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed Detect and capture faces, get real-time snapshots Count the number of people entering or exiting, up to 4 detection areas for regional people counting
<b>System</b>	Storage Advanced Function SIP/VoIP Support Event Trigger Event Action System Compatibility	Support microSD/SDHC/SDXC Card Local Storage, up to 256G Heat Map, BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark Yes, Voice & Video-over-IP Motion Detection, Network Disconnection, etc.; Motion Detection, Network Disconnection, External Input, Audio Alarm, etc. (Multi-interface Version) FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.; FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc. (Multi-interface Version) ONVIF Profile G & Q & S & T, API
<b>General</b>	Working Temperature Working Humidity Power Supply Power Consumption Weather Proof Housing Weight Dimensions Warranty	-40°C~60°C 0~90%(Non-condensing) PoE (802.3af); PoE (802.3af) / DC 12V±10% (Multi-interface Version) 4W MAX 6W MAX (With IR on)      4W MAX 6W MAX (With IR on)      5W MAX 7W MAX (With IR on) Up to IP67-rated for Weather-resistant Performance Vandal-proof IK10-rated Metal Housing 750g Φ76mmX214.5mm 3/5 Years





## Structure Diagrams



Units: mm

## Accessories Support

A01 Pole Mount  
Weight: 720g  
Dimensions: 170\*51.5\*152.6mm



A03 External Corner Bracket  
Weight: 900g  
Dimensions: 170\*152.5\*76.3mm



A63 Junction Box  
Weight: 620g  
Dimensions: 134\*126\*40mm



3 de mayo del 2023.

Señores:

JUNTA CENTRAL ELECTORAL.

Referencia: **JCE-CCC-LPN-2023-0003**.

Dirección: Av. 27 de Febrero esquina Av. Luperón,  
Santo Domingo Oeste, Distrito Nacional.

**Atención:** Comité de compras y contrataciones.

Distinguidos señores:

Por medio de la presente, les presentamos la siguiente tabla en donde podrán apreciar los tiempos de entregas de los bienes ofertados en el proceso de referencia **JCE-CCC-LPN-2023-0003**:

Ítem	Cant.	Descripción	Tiempo de entrega
3	30	Switch de 24 puertos	15 días laborables
4	30	Switch de 48 puertos	15 días laborables
7	446	Cámara Bullet IP, 4MP	30 días laborables
11	78	UPS	45 días laborables
16	246	Cable UTP	30 días laborables

**Nota:** Los tiempos de entrega son fechas limites máximas.

Sin otro particular por el momento, aprovechamos para saludarles.

Atentamente;

  
Ing. Juan Miguel Ceballos  
Gerente General





**COMPUSOLUCIONES**

*Su solución total en redes convergentes*

3 de mayo del 2023.

Señores:

JUNTA CENTRAL ELECTORAL.

Referencia: **JCE-CCC-LPN-2023-0003**.

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Santo Domingo Oeste, Distrito Nacional.

**Atención:** Comité de compras y contrataciones.

Distinguidos señores:

Por medio de la presente, les certificamos que los bienes ofertados por **COMPUSOLUCIONES, JC, SRL**, para el proceso de referencia **JCE-CCC-LPN-2023-0003**, son equipos nuevos; no son usados, ni re-manufacturados, ni reparados.

Dichos bienes cuentan con la garantía por 12 meses (por fallas propias de los equipos), tiempo de entrega y condiciones de pago según los términos establecidos en el procedimiento de Licitación Pública Nacional.

Sin otro particular por el momento, aprovechamos para saludarles.

Atentamente:

Ing. Juan Miguel Ceballos  
Gerente General

