







Product Line Reference Guide



INDUSTRIAL NETWORKING AND MEDIA CONVERSION

INDUSTRIAL NETWORKING AND MEDIA CONVERSION

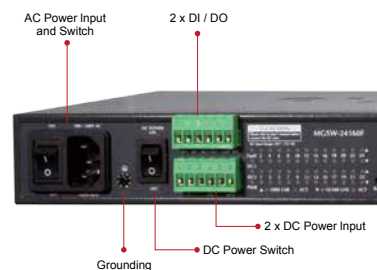
19" Rackmount Managed Ethernet Switches

PART NUMBER		L2+ RING			
		PL-IGSW-24040T	PL-IGS-5225-16T4S	PL-IGS-5225-20T4C2X	PL-IGS-5225-24P4S
Product		 Modbus TCP	 Modbus TCP	 Modbus TCP	 PoE Modbus TCP
Hardware	10/100/1000BASE-T	24	16	24	24
	10/100BASE-TX	-	-	-	-
	1000 mini-GBIC	4 (Combo)	4	4 (Combo)	4 (Combo)
	100BASE-FX	Compatible	Compatible	Compatible	Compatible
	10G SFP+ Slot	-	-	2 (1000X Compatible)	-
	Switch Fabric	48 Gbps	40 Gbps	68 Gbps	48 Gbps
	DI/DO	2DI/DO	2DI/DO	2DI/DO	2DI/DO
Power	Inputs	Dual 36~60V DC 100~240V AC	Dual 36~60V DC 100~240V AC	Dual 36~60V DC 100~240V AC	Dual 48~56V DC 100~240V AC
	Connector	6-pin terminal block, AC socket		6-pin terminal block, AC socket	
	Consumption	30 watts	15.2 watts	42.7 watts	500 watts
Mechanical	Dimensions (W x D x H)	440 x 200 x 44.5 mm	440 x 200 x 44.5 mm	440 x 200 x 44.5 mm	440 x 300 x 44.5 mm
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	Rackmount	Rackmount	Rackmount	Rackmount
Environment	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	5% to 95%RH (Non-condensing)		5% to 95%RH (Non-condensing)	
Regulatory	Emissions	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)			
PoE	PoE Standard	-	-	-	802.3af/802.3at
	PoE Port	-	-	-	24
	PoE Budget	-	-	-	440 watts max.
	PSE Type	-	-	-	End-span
	Power Pin Assignment	-	-	-	1/2(+), 3/6(-)
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	128 VLAN	8 VLAN
	Routing Tables	32	32	32	32
	Routing Protocols	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing
	Accelerated Hardware	-	-	-	-
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/ Protocol-based VLAN/Voice VLAN/MVR			
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s
	Data Redundancy	ERPS Ring < 20 ms	ERPS Ring < 20 ms	ERPS Ring < 20 ms	ERPS Ring < 20 ms
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN		Port-based/802.1P/IP DSCP Policy-based/Voice VLAN	
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security		802.1x, Static MAC, MAC filter, Port Security and IP Security	
	Traffic Control	In/out rate limit, storm control		In/out rate limit, storm control	
Management	Interface	Console, Web, telnet, SSH and SSL		Console, Web, telnet, SSH and SSL	
	SNMP	v1, v2c, v3 and trap		v1, v2c, v3 and trap	
	Alarm	Power and port alarm		Power and port alarm	
	System Log	System Log and remote Syslog		System Log and remote Syslog	

Metro Fibre Switches

PART NUMBER		13" RACKMOUNT	19" RACKMOUNT	
Product		PL-MGSD-10080F	PL-MGSW-24160F	PL-MGSW-28240F
Hardware	10/100/1000BASE-T	2	8	4 (Combo)
	10/100BASE-TX	-	-	-
	1000 mini-GBIC	8	16	24
	100BASE-FX	Compatible	Compatible	Compatible
	10G SFP+ Slot	-	-	4 (1000X Compatible)
	Switch Fabric	20 Gbps	48 Gbps	128 Gbps
	DI/DO	2DI/DO	2DI/DO	2DI/DO
Power	Inputs	Dual 36~72V DC 100~240V AC	Dual 36~60V DC 100~240V AC	Dual 36~60V DC 100~240V AC
	Connector	6-pin terminal block, AC socket		
	Consumption	11.2 watts	45 watts	54 watts
Mechanical	Dimensions (W x D x H)	330 x 155 x 43.5 mm	440 x 200 x 44.5 mm	440 x 200 x 44.5 mm
	Enclosure	Metal chassis	Metal chassis	Metal chassis
	Mounting	Rackmount	Rackmount	Rackmount
Environment	Operating Temperature	-10~60°C	-10~60°C	-10~60°C
	Operating Humidity	5% to 95%RH (Non-condensing)		
Regulatory	Emissions	FCC Class A, CE Class A		
	Stability	-	-	-
PoE	PoE Standard	-	-	-
	PoE Port	-	-	-
	PoE Budget	-	-	-
	PSE Type	-	-	-
	Power Pin Assignment	-	-	-
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	128 VLAN
	Routing Tables	32	32	32
	Routing Protocols	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing
	Accelerated Hardware	-	-	-
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/Protocol-based VLAN/Voice VLAN/MVR		
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s
	Data Redundancy	ERPS Ring < 20 ms	RSTP/MSTP	ERPS Ring < 20 ms
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN		
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security		
Management	Traffic Control	In/out rate limit, storm control		
	Interface	Console, Web, telnet, SSH and SSL		
	SNMP	v1, v2c, v3 and trap		
	Alarm	Power and port alarm		
	System Log	System Log and remote Syslog		








Fully Front Panel Access Design







AC Power, DC Power, Digital I/O, and Network Access are all managed on the front panel.

INDUSTRIAL NETWORKING AND MEDIA CONVERSION

DIN-rail L2+ Managed Ethernet Switches






		L2+ RING						L2/L4	
PART NUMBER		PL-IGS-5225-8T2S2X	PL-IGS-20040MT	PL-IGS-12040MT	PL-IGS-10020MT	PL-IGS-10080MFT	PL-IGS-5225-4T2S	PL-IGS-801M	
Product		 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP		
Hardware	10/100/1000BASE-T	8	16	8	8	2	4	8	
	10/100BASE-TX	-	-	-	-	-	-	-	
	1000 mini-GBIC	2	4	4	2	8	2	-	
	100BASE-FX	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	-	
	10G SFP+ Slot	2	-	-	-	-	-	-	
	Switch Fabric	60 Gbps	40 Gbps	24 Gbps	20 Gbps	20 Gbps	12 Gbps	16 Gbps	
	DI/DO	2DI/DO	2DI/DO	2DI/DO	-	-	-	-	
Power	Inputs	Dual 12~48V DC or 24V AC		Dual 12~72V DC or 24V AC	Dual 12~48V DC or 24V AC		Dual 12~48V DC or 24V AC		
	Connector	6-pin terminal block			6-pin terminal block			6-pin terminal block	
	Consumption	20 watts	17 watts	12 watts	10 watts	13.92 watts	6.5 watts	10 watts	
Mechanical	Dimensions (W x D x H)	72 x 107 x 152 mm				56 x 87.8 x 135 mm	72 x 107 x 152 mm	32 x 87 x 135 mm	32 x 87 x 135 mm
	Enclosure	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 metal	IP30 metal	
	Mounting	DIN-rail, wall-mountable			DIN-rail, wall-mountable		DIN-rail, wall-mountable		
Environment	Operating Temperature	-40~75°C			-40~75°C		-40~75°C		
	Operating Humidity	5% to 95%RH (Non-condensing)			5% to 95%RH (Non-condensing)		5% to 95%RH (Non-condensing)		
Regulatory	Emissions	FCC Class A, CE Class A			FCC Class A, CE Class A		FCC Class A, CE Class A		
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)							
PoE	PoE Standard	-	-	-	-	-	-	-	
	PoE Port	-	-	-	-	-	-	-	
	PoE Budget	-	-	-	-	-	-	-	
	PSE Type	-	-	-	-	-	-	-	
	Power Pin Assignment	-	-	-	-	-	-	-	
Layer 3 Features	IP Interfaces	128 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	-	
	Routing Tables	32	32	32	32	32	32	-	
	Routing Protocols	IPv6/IPv4 Static Routing							
	Accelerated Hardware	●	-	-	-	-	-	-	
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/Protocol-based VLAN/Voice VLAN/MVR						IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/Protocol-based VLAN/Voice VLAN/GVRP	
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v2/v3/query	
	Spanning Tree	802.1w/802.1s			802.1w/802.1s		802.1w/802.1s		
	Data Redundancy	ERPS Ring < 20 ms			ERPS Ring < 20 ms			RSTP/MSTP	
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN							
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security							
	Traffic Control	In/out rate limit, storm control							
Management	Interface	Console, Web, telnet, SSH and SSL			Web, telnet, SSH and SSL	Console, Web, telnet, SSH and SSL		Web, telnet, SSH and SSL	
	SNMP	v1, v2c, v3 and trap							
	Alarm	Power and port alarm			Power alarm	Power alarm	Power alarm	Power alarm	
	System Log	System Log and remote Syslog							

DIN-rail L2+ Power over Ethernet Managed Ethernet Switches








		ULTRA POE		802.3AT POE+				802.3AF
PART NUMBER		PL-IGS-5225-4UP1T2S	PL-IGS-5225-8P2S2X	PL-IGS-5225-8P4S	PL-IGS-5225-8P2S	PL-IGS-10020HPT	PL-IGS-20160HPT	PL-IGS-10020PT
Product		 Modbus TCP 60W	 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP	 Modbus TCP
Hardware	10/100/1000BASE-T	5	8	8	8	8	18	8
	10/100BASE-TX	-	-	-	-	-	-	-
	1000 mini-GBIC	2	2	4	2	2	2	2
	100BASE-FX	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	10G SFP Slot	-	2	-	-	-	-	-
	Switch Fabric	14 Gbps	60 Gbps	24 Gbps	20 Gbps	20 Gbps	40 Gbps	20 Gbps
	DI/DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO
Power	Inputs	Dual 48~56V DC	Dual 48~56V DC	Dual 48~56V DC	Dual 48~56V DC	Dual 48V DC	Dual 48~56V DC	Dual 48~56V DC
	Connector	6-pin terminal block		6-pin terminal block		6-pin terminal block		
	Consumption	280 watts	300 watts	300 watts	300 watts	306 watts	440 watts	161.9 watts
Mechanical	Dimensions (W x D x H)	72 x 107 x 152 mm	72 x 107 x 152 mm	72 x 107 x 152 mm	72 x 107 x 152 mm	72 x 107 x 152 mm	82 x 107 x 152 mm	72 x 107 x 152 mm
	Enclosure	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum
	Mounting	DIN-rail, wall-mountable		DIN-rail, wall-mountable		DIN-rail, wall-mountable		
Environment	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	5% to 95%RH (Non-condensing)		5% to 95%RH (Non-condensing)		5% to 95%RH (Non-condensing)		
Regulatory	Emissions	FCC Class A, CE Class A		FCC Class A, CE Class A		FCC Class A, CE Class A		
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)						
PoE	PoE Standard	Ultra PoE (802.3at Compliant)	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af
	PoE Port	4	8	8	8	8	16	8
	PoE Budget	240 watts	270 watts max.	240 watts max.	240 watts max.	270 watts max.	320 watts max.	130 watts max.
	PSE Type	Mid-span + End-span	End-span	End-span	End-span	End-span	End-span	End-span
	Power Pin Assignment	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN
	Routing Tables	32	32	32	32	32	32	32
	Routing Protocols	IPv6/IPv4 Static Routing		IPv6/IPv4 Static Routing		IPv6/IPv4 Static Routing		
	Accelerated Hardware	-	-	-	-	-	-	-
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/Protocol-based VLAN/Voice VLAN/MVR		802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN, Protocol-based VLAN/Voice VLAN/MVR		IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/Protocol-based VLAN/Voice VLAN/MVR		
	IGMP Snooping	v1/v2/v3/query		v1/v2/v3/query		v1/v2/v3/query		
	Spanning Tree	802.1w/802.1s		802.1w/802.1s		802.1w/802.1s		
	Data Redundancy	ERPS Ring < 20 ms		ERPS Ring < 20 ms		ERPS Ring < 20 ms		
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN						
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security						
	Traffic Control	In/out rate limit, storm control		In/out rate limit, storm control		In/out rate limit, storm control		
Management	Interface	Console, Web, telnet, SSH and SSL		Console, Web, telnet, SSH and SSL		Console, Web, telnet, SSH and SSL		
	SNMP	v1, v2c, v3 and trap		v1, v2c, v3 and trap		v1, v2c, v3 and trap		
	Alarm	Power and port alarm		Power and port alarm		Power and port alarm		
	System Log	System Log and remote Syslog		System Log and remote Syslog		System Log and remote Syslog		

INDUSTRIAL NETWORKING AND MEDIA CONVERSION



DIN-rail L2/L4 Power over Ethernet Managed Switches

PART NUMBER		802.3AT POE+			802.3AF POE	
		PL-IGS-4215-4P4T	PL-IGS-4215-4P4T2S	PL-IGS-4215-8P2T2S	PL-ISW-504PS	PL-ISW-514PS/ PL-ISW-514PSF
Product						
Hardware	10/100/1000BASE-T	8	8	10	-	-
	10/100BASE-TX	-	-	-	5	5
	1000 mini-GBIC	-	2	2	-	-
	100BASE-FX	-	Compatible	Compatible	-	1
	Switch Fabric	16 Gbps	20 Gbps	24 Gbps	1 Gbps	1 Gbps
	DI/DO	-	-	-	-	-
Power	Inputs	Dual 48~56V DC	Dual 48~56V DC	Dual 48~56V DC	Dual 24 or 48V DC	Dual 24 or 48V DC
	Connector	6-pin terminal block	6-pin terminal block	6-pin terminal block	6-pin terminal block	6-pin terminal block
	Consumption	160 watts	170 watts	280 watts	70.56 watts	80.2 watts
Mechanical	Dimensions (W x D x H)	72 x 107 x 152 mm	72 x 107 x 152 mm	72 x 107 x 152 mm	56 x 87.8 x 135 mm	56 x 87.8 x 135 mm
	Enclosure	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum	IP30 aluminum
	Mounting	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable
Environment	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-10~60°C	-10~60°C
	Operating Humidity	5% to 95%RH (Non-condensing)			5% to 95%RH (Non-condensing)	
Regulatory	Emissions	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)				
PoE	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af	802.3af
	PoE Port	4	4	8	4	4
	PoE Budget	144 watts	144 watts	240 watts	60 watts max.	60 watts max.
	PSE Type	End-span	End-span	End-span	End-span	End-span
	Power Pin Assignment	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
Layer 3 Features	IP Interfaces	-	-	-	-	-
	Routing Tables	-	-	-	-	-
	Routing Protocols	-	-	-	-	-
	Accelerated Hardware	-	-	-	-	-
Protocol	VLAN	IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/ Protocol-based VLAN/Voice VLAN/GVRP			Port-based VLAN/IEEE 802.1Q VLAN	
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	-	-
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	-	-
	Data Redundancy	RSTP/MSTP	RSTP/MSTP	RSTP/MSTP	-	-
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN			Port-based/802.1P/IP DSCP	
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security			-	-
	Traffic Control	In/out rate limit, storm control			In/out rate limit	In/out rate limit
Management	Interface	Console, Web, telnet, SSH and SSL			Web	Web
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	-	-
	Alarm	Power alarm	Power alarm	Power and port alarm	-	-
	System Log	System Log and remote Syslog			-	-

Industrial Power over Ethernet Unmanaged Switches

		802.3AF POE			802.3AT POE+			ULTRA POE
PART NUMBER		PL-ISW-504PT	PL-ISW-514PT	PL-ISW-514PTF	PL-IGS-504HPT	PL-IGS-624HPT	PL-IFGS-1022HPT	PL-IPOE-E174
Product						 Redundant Fiber		 PoE Extension
Hardware	10/100/1000BASE-T	-	-	-	5	4	2	5
	10/100BASE-TX	5	4	4	-	-	8	-
	1000BASE-SX/LX	-	-	-	-	2	2	-
	100BASE-FX	-	1/MM/2 km	1	-	Compatible	-	-
	Fibre Connector Type	-	SC	SFP	-	SFP	SFP	-
	Switch Fabric	1 Gbps	1 Gbps	1 Gbps	10 Gbps	12 Gbps	5.6 Gbps	10 Gbps
	MAC Table	1K	1K	1K	1K	1K	16K	8K
Mechanical	Dimensions (W x D x H)	56 x 87.8 x 135 mm		56 x 87.8 x 135 mm	92 x 105 x 152 mm			56 x 87.8 x 135 mm
	Enclosure	IP30 aluminum		IP30 aluminum	IP30 aluminum			IP30 metal
	Power Requirement	Dual 24V or 48V DC		Dual 24V or 48V DC	Dual 48V DC		48~56VDC	End-span + Mid-span
	Mounting	DIN-rail, wall-mountable			DIN-rail, wall-mountable			
Regulatory	EMI/Safety		FCC Class A, CE	FCC Class A, CE	FCC Class A, CE			
Environment	Operating Temperature		-40~75°C		-40~75°C			
PoE	PoE Standard	802.3af	802.3af	802.3af	802.3af/802.3at			
	PoE Port	4	4	4	4	4	8	4
	PoE Budget	60 watts max.		60 watts max.	120 watts max.		240 watts max.	50 watts max.
	PSE Type	End-span		End-span	End-span			
Power Pin Assignment		1/2(+), 3/6(-)		1/2(+), 3/6(-)	1/2(+), 3/6(-)			


Renewable Energy PoE Switches



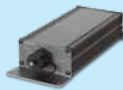
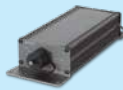
PART NUMBER		PL-BSP-360	PL-BSP-300
Product			
LAN	10/100/1000	5	3
PoE	802.3at	4	2
PoE Budget		per port 30 watts (max.)	
PSE Type		end-span	
PoE Power Pin		1/2(+), 3/6 (-)	
PoE Power Voltage		52V DC	
Management		Web/SNMP	
System Voltage/ Battery Requirement		24V DC	
Power IN		Solar or turbines 24~45V DC	
Max. Charge Current		15A	
Max. Output Current		15A	
Features		<ul style="list-style-type: none"> • 24V DC, 1A output load • Low voltage protection and alert PoE schedule and management • USB Backup 	<ul style="list-style-type: none"> • 24V DC, 2A output load • Low voltage protection

Note: Check the total power consumption of your device and the sunshine duration of your area from weather bureau for a proper PV. Improper PV could shorten the battery life or provide insufficient power to Renewable Energy PoE Switch.

INDUSTRIAL NETWORKING AND MEDIA CONVERSION








EN50155 Railway/Ethernet Switches & Extenders

PART NUMBER		802.3AT POE+				L2+ RING		
		PL-IGS-5227-4MP2MT	PL-IGS-604HPT-M12	PL-IGS-604HPT-RJ	PL-IGS-5226-4P2T	PL-IGS-5227-6MT-X	PL-IGS-5227-6MT	PL-IGS-5227-6T
Product								
			Modbus TCP	Modbus TCP	Modbus TCP		Modbus TCP	Modbus TCP
Hardware	10/100/1000BASE-T	6 x M12, 8-pin A-coded connector		6 x Waterproof RJ45		6 x M12, 8-pin X-coded connector	6 x M12, 8-pin A-coded connector	6 x Waterproof RJ45
	1000 mini-GBIC	-	-	-	-	-	-	-
	100BASE-FX	-	-	-	-	-	-	-
	Switch Fabric	12 Gbps	12 Gbps	12 Gbps	12 Gbps	12 Gbps	12 Gbps	12 Gbps
	DI/DO	-	-	-	-	-	-	-
Power	Inputs	Dual 24~48V DC	Dual 48~56V DC	Dual 48~56V DC	Dual 48~56V DC	Dual 9~48V DC	Dual 9~48V DC	Dual 9~48V DC
	Connector	5-pin M23 male connector	5-pin A-Coded M12 male connector			5-pin A-Coded M12 male connector		
	Consumption	160 watts	160 watts	160 watts	160 watts	10 watts	10 watts	10 watts
Mechanical	Dimensions (W x D x H)	163 x 103 x 53 mm	163 x 103 x 53 mm	163 x 103 x 53 mm	163 x 103 x 53 mm	163 x 103 x 53 mm	163 x 103 x 53 mm	163 x 103 x 53 mm
	Enclosure	IP67 aluminum	IP67 aluminum	IP67 aluminum	IP50 metal	IP67 aluminum	IP67 aluminum	IP67 aluminum
	Mounting	DIN-rail, wall-mountable				DIN-rail, wall-mountable		
Environment	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	5% to 95%RH (Non-condensing)				5% to 95%RH (Non-condensing)		
Regulatory	Emissions	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)				IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)		
PoE	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	-	-	-
	PoE Port	4	4	4	4	-	-	-
	PoE Budget	144 watts	144 watts	144 watts	144 watts	-	-	-
	PSE Type	End-span	End-span	End-span	End-span	-	-	-
	Power Pin Assignment	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	-	-	-
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN	8 VLAN
	Routing Tables	32	32	32	32	32	32	32
	Routing Protocols	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing	IPv6/IPv4 Static Routing
	Accelerated Hardware	-	-	-	-	-	-	-
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN/Protocol-based VLAN/Voice VLAN/MVR				802.1Q VLAN/Q-in-Q/Private VLAN/MAC-based VLAN, Protocol-based VLAN/Voice VLAN/MVR		
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s
	Data Redundancy	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN						
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security						
	Traffic Control	In/out rate limit, storm control						
Management	Interface	Web, telnet, SSH and SSL				Web, telnet, SSH and SSL		
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap		
	Alarm	Power and port alarm		Power alarm		Power and port alarm		
	System Log	System Log and remote Syslog				System Log and remote Syslog		



		M12 SWITCHES		RJ45 EXTENDER	
PART NUMBER		PL-ISW-800T-M12	PL-ISW-804PT-M12	PL-IPOE-E172	PL-IPOE-E202
Product			 PoE	 95W	 PoE
Hardware	Interface	8 x M12, 4-pin D-coded connector		3 x IP63 waterproof RJ45	3 x IP63 waterproof RJ45
	Data Rate	10/100Mbps	10/100Mbps	10/100/1000Mbps	10/100/1000Mbps
	Power over Ethernet	-	4-port 802.3af PoE PSE	1-port 802.3bt PoE PD 2-port 802.3bt/at PoE PSE	1-port 802.3at PoE PD 2-port 802.3af/at PoE PSE
	Switch Fabric	1.6 Gbps	1.6 Gbps	6 Gbps	6 Gbps
Mechanical	Dimensions (W x D x H)	103 x 53 x 163 mm	103 x 53 x 163 mm	199.6 x 81 x 40 mm	199.6 x 81 x 40 mm
	Weight	976 g	990 g	320 g	320 g
	Enclosure	IP67 aluminum	IP67 aluminum	IP63 aluminum	IP63 aluminum
	Mounting	DIN-rail, wall-mountable	DIN-rail, wall-mountable	Wall-mountable	Wall-mountable
Power	Inputs	Dual 12~48V DC	Dual 48V DC	50~57V DC PoE	50~57V DC PoE
	Connector	5-pin A-coded M12 male connector	5-pin A-coded M12 male connector	RJ45	RJ45
	Consumption	4 watts	65 watts	60~95 watts	30 watts
Environment	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	5% to 95%RH (Non-condensing)	5% to 95%RH (Non-condensing)	5% to 95%RH (Non-condensing)	5% to 95%RH (Non-condensing)
Regulatory	Emissions/Safety	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)			

INDUSTRIAL NETWORKING AND MEDIA CONVERSION

Flat-type Managed Ethernet Switches

PART NUMBER		L2/L4 SWITCHES				L2/L4 POE+ SWITCHES		
		PL-WGS-4215-8T	PL-WGS-4215-8T2S	PL-WGS-5225-8T2SV	PL-WGS-5225-8P2SV	PL-WGS-5225-8P2S	PL-WGS-4215-8P2S	PL-WGS-804HPT
Product								
Hardware	LCD	-	-	2.4" Colour TFT touch screen		-	-	-
	10/100/1000BASE-T	8	8	8	8	8	8	8
	10/100BASE-TX	-	-	-	-	-	-	-
	1000 mini-GBIC	-	2	2	2	2	2	-
	100BASE-FX	-	Compatible	Compatible	Compatible	Compatible	Compatible	-
	10G SFP+ Slot	-	-	-	-	-	-	-
	Switch Fabric	16 Gbps	20 Gbps	20 Gbps	20 Gbps	20 Gbps	20 Gbps	16 Gbps
	DI/DO	-	-	-	-	-	-	-
Power	Inputs	12~48V DC or 24V AC	12~48V DC or 24V AC	12~48V DC or 24V AC	Dual 48~56V DC	Dual 48~56V DC	Dual 48~56V DC	
	Connector	3-pin terminal block, DC socket				3-pin terminal block, DC socket		
	Consumption	7 watts	7.9 watts	12 watts	215 watts	210 watts	210 watts	152 watts
Mechanical	Dimensions (W x D x H)	148 x 25 x 134 mm	178 x 25 x 134 mm	178 x 25 x 134 mm	178 x 25 x 134 mm	178 x 25 x 134 mm	178 x 25 x 134 mm	148 x 25 x 134 mm
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	DIN-rail, wall-mountable and magnetic wall mount				DIN-rail, wall-mountable and magnetic wall mount		
	Operating Temperature	-40~75°C	-40~75°C	-20~70°C	-20~70°C	-40~75°C	-40~75°C	
Environment	Operating Humidity	5% to 95%RH (Non-condensing)				5% to 95%RH (Non-condensing)		
	Emissions	FCC Class A, CE Class A				FCC Class A, CE Class A		
Regulatory	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)						
	PoE Standard	-	-	-	802.3at PoE+		802.3af/802.3at	
PoE	PoE Port	-	-	-	8	8	8	4
	PoE Budget	-	-	-	200 watts	200 watts	200 watts	144 watts
	PSE Type	-	-	-	End-sapn	End-sapn	End-sapn	End-sapn
	Power Pin Assignment	-	-	-	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
	IP Interfaces	-	-	8 VLAN	8 VLAN	8 VLAN	-	-
Layer 3 Features	Routing Tables	-	-	32	32	32	-	-
	Routing Protocols	-	-	IPv6/IPv4 Static Routing			-	-
	Accelerated Hardware	-	-	-	-	-	-	-
	VLAN	IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/Protocol-based VLAN/Voice VLAN/GVRP						
Protocol	IGMP Snooping	v2/v3/query	v2/v3/query	V1/v2/v3/query	V1/v2/v3/query	V1/v2/v3/query	v2/v3/query	v2/v3/query
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s
	Data Redundancy	RSTP/MSTP	RSTP/MSTP	ERPS Ring < 20ms	ERPS Ring < 20ms	ERPS Ring < 20ms	RSTP/MSTP	RSTP/MSTP
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN						
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security						
	Traffic Control	In/out rate limit, storm control						
	Interface	Web, telnet, SSH and SSL						
	SNMP	v1, v2c, v3 and trap						
Management	Alarm	-	-	-	-	-	-	-
	System Log	System Log and remote Syslog						

Flat-type Unmanaged Ethernet Switches

PART NUMBER		SWITCH	POE+ SWITCH
		PL-WGS-803	PL-WGS-804HP
Product			
Hardware	10/100/1000BASE-T	8	8
	10/100BASE-TX	-	-
	1000 mini-GBIC	-	-
	100BASE-FX	-	-
	Fibre Connector Type	-	-
	Switch Fabric	16 Gbps	16 Gbps
Power	Inputs	12~48V DC or 24V AC	Dual 48~56V DC
	Connector	3-pin terminal block, DC socket	
Mechanical	Dimensions (W x D x H)	148 x 25 x 134 mm	
	Enclosure	IP30 metal	
	Mounting	DIN-rail, wall-mountable and magnetic wall mount	
Environment	Operating Temperature	-10~60°C	
Regulatory	Emissions	FCC Class A, CE Class A	
PoE	PoE Standard	-	802.3af/802.3at
	PoE Port	-	4
	PoE Budget	-	120 watts
	PSE Type	-	End-span
	Power Pin Assignment	-	1/2(+), 3/6(-)

Flat-type Ethernet Switch Features



Dual Power Input



Flat Design



DIN-rail Installation



PoE Usage



Fibre Connection






Magnetic Installation






Front Access

INDUSTRIAL NETWORKING AND MEDIA CONVERSION










Industrial Long Reach PoE Switch, Injectors & Extenders

		LONG REACH POE INJECTORS		SWITCH
PART NUMBER		PL-LRP-101CH	PL-LRP-101UH	PL-LRP-422CST
Product				
Ethernet Interfaces	10/100BASE-TX	1 x RJ45 w/ PoE PD		-
	10/100/1000BASE-T	-	-	2
	1000BASE-SX/LX	-	-	2 (100BASE-FX Compatible)
	PoE Power	-	-	-
	Cabling	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	100 m	100 m	100 m
Long Reach PoE Interfaces	Connectivity	1 x BNC female (PSE)	1 x RJ45 Copper (PSE)	4 x BNC female (PSE)
	Cabling	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Coaxial cable: 75ohm
	Maximum Distance	1000 m	500 m	1000 m
	Data Rate	200 m: 93 Mbps/93 Mbps 1000 m: 55 Mbps/73 Mbps	200 m: 94 Mbps/94 Mbps 500 m: 30 Mbps/30 Mbps	200 m: 93 Mbps/93 Mbps 1000 m: 52 Mbps/50 Mbps
	Power Output	48~56V DC, 36 watts max.		
	Total Power Budget	36 watts max.	36 watts max.	144 watts max.
	Encryption	AES128-bit	AES128-bit	AES128-bit
PoE Ability	PoE Standard	Power over coaxial	Power over UTP	Power over coaxial
	PoE Port	1 x BNC female (PSE)	1 x UTP	4 x BNC female (PSE)
	PoE Power Output	41~56V DC	41~56V DC	41~56V DC
Intelligent Power Control	Over Temperature Protection	-	-	
	PD Alive Check	-	-	
	PoE Schedule	-	-	
	Power Limit	-	-	
	Scheduled Power Recycling	-	-	
Protocols	VLAN	-	-	802.1Q, Q-in-Q, Voice VLAN, Private VLAN
	Spanning Tree	-	-	802.1D/802.1w/802.1s
	IGMP Snooping	-	-	v1, v2, v3
Management	Interface	-	-	Console, Telnet, HTTP
	SNMP	-	-	v1, v2c, v3, trap
	SSH/SSL	-	-	● / ●
Physical	Dimensions (W x D x H)	94 x 70 x 26 mm		107 x 72 x 152 mm
	Power Requirements	DC: 48~56V DC, PoE: 802.3at input		Dual 48~56V DC
	Operating Temperature	-20~70°C		-40~75°C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

PART NUMBER		LONG REACH POE EXTENDERS		LONG REACH POE EXTENDERS
		PL-LRP-101CE	PL-LRP-101UE	PL-LRP-104CET
Product				
Ethernet Interfaces	10/100BASE-TX	1 x RJ45 w/ PoE PSE	1 x RJ45 w/ PoE PSE	4 x RJ45 w/ PoE PSE
	10/100/1000BASE-T	-	-	-
	1000BASE-SX/LX	-	-	-
	PoE Power	56V DC, 600mA max.	48~56V DC, 600mA max.	56V DC, 600 mA max.
	Cabling	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	100 m	100 m	100m
Long Reach PoE Interfaces	Connectivity	1 x BNC female (PD)	1 x RJ45 Copper (PD)	1 x BNC female (PD)
	Cabling	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Coaxial cable: 75ohm
	Maximum Distance	1000 m	500 m	1000 m
	Data Rate	200 m: 93 Mbps/93 Mbps 1000 m: 55 Mbps/73 Mbps	200 m: 94 Mbps/94 Mbps 500 m: 30 Mbps/30 Mbps	200 m: 93 Mbps/93 Mbps 1000 m: 52 Mbps/50 Mbps
	Power Output	-	-	-
	Total Power Budget	-	-	-
	Encryption	AES128-bit	AES128-bit	AES128-bit
PoE Ability	PoE Standard	802.3af/802.3at	802.3af/at	802.3af/at
	PoE Port	1 x RJ45 (PSE)	1 x RJ45 (PSE)	4 x RJ45 (PSE)
	PoE Power Output	56V DC, 600 mA max.	48~56V DC, 600 mA max.	56V DC, 600 mA max.
Intelligent Power Control	Over Temperature Protection	-	-	-
	PD Alive Check	-	-	-
	PoE Schedule	-	-	-
	Power Limit	-	-	-
	Scheduled Power Recycling	-	-	-
Protocols	VLAN	-	-	-
	Spanning Tree	-	-	-
	IGMP Snooping	-	-	-
Management	Interface	-	-	-
	SNMP	-	-	-
	SSH/SSL	-	-	-
Physical	Dimensions (W x D x H)	94 x 70 x 26 mm		107 x 72 x 152 mm
	Power Requirements	37~56V DC PoC	37~56V DC PoC	37~56V DC PoC/ Dual 48~56V DC
	Operating Temperature	-20~70°C		-40~75°C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE






INDUSTRIAL NETWORKING AND MEDIA CONVERSION

Unmanaged Fast Ethernet Switches





PART NUMBER		FAST ETHERNET								
		PL-ISW-500T	PL-ISW-800T	PL-ISW-501T	PL-ISW-801T	PL-ISW-511*	PL-ISW-511S15*	PL-ISW-621*	PL-ISW-621S15*	PL-ISW-621TF
Product										
Hardware	10/100BASE-TX	5	8	5	8	4	4	4	4	4
	10/100/1000BASE-T	-	-	-	-	-	-	-	-	-
	100BASE-FX	-	-	-	-	1/Multimode/ 2 km	1/Single-mode/ 15 km	2/Multimode/ 2 km	2/Single-mode/ 15 km	2 SFP Slots
	Switch Fabric	1 Gbps	1.6 Gbps	1 Gbps	1.6 Gbps	1 Gbps	1 Gbps	1.2 Gbps	1.2 Gbps	1.2 Gbps
	MAC Table	1k	1k	2k	2k	2k	2k	2k	2k	2k
	Memory Buffer	448k bits	448k bits	448k bits	448k bits	448k bits	448k bits	448k bits	448k bits	448k bits
Protocol	Auto-negotiation	●	●	●	●	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●	●	●	●	●
Power	Inputs	12~48V DC/24VAC, Dual power input		12~48VDC, Dual power input		12~48VDC, Dual power input		12~48VDC, Dual power input		
	Connector	6-pin Removable Terminal Block				6-pin Removable Terminal Block				
	Consumption	2 watts	2.5 watts	3.9 watts	5.1 watts	5.4 watts	5.4 watts	7.9 watts	7.9 watts	7.9 watts
Mechanical	Dimensions (W x D x H)	30 x 70 x 104 mm	41 x 70 x 115 mm	32 x 87.8 x 135 mm		32 x 87.8 x 135 mm		32 x 87.8 x 135 mm		
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	DIN-Rail, Wall-mountable				DIN-Rail, Wall-mountable				
Environment	Operating Temperature	-40~75°C		-40~75°C		-10~60°C*			-40~75°C	
	Operating Humidity	5% to 95%RH (Non-condensing)				5% to 95%RH (Non-condensing)				
Regulatory	Emissions / Safety	FCC Class A, CE Class A				FCC Class A, CE Class A, UL, cUL		FCC Class A, CE Class A		
	Stability	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)								





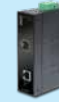

* Wide Temperature models (-40~75°C): ISW-511T, ISW-511TS15, ISW-621T, ISW-621TS15

Unmanaged Gigabit Ethernet Switches

PART NUMBER		GIGABIT				
		PL-IGS-500T	PL-IGS-501T	PL-IGS-801T	PL-IGS-620TF	PL-IGS-1020TF
Product						
Hardware	10/100/1000BASE-T	5	5	8	4	8
	10/100BASE-TX	-	-	-	-	-
	1000BASE-SX/LX	-	-	-	2 (100BASE-FX Compatible)	2
	Switch Fabric	10 Gbps	10 Gbps	16 Gbps	12 Gbps	20 Gbps
	MAC Table	2 k	2 k	8 k	1 k	8 K
	Memory Buffer	1 Mbits	1 Mbits	176 k Bytes	-	-
Protocol	Auto-negotiation					
	802.3x Flow Control					
Power	Inputs	12~48V DC/24V AC, Dual power input		12~48VDC, Dual power input		12~48VDC, Dual power input
	Connector	6-pin removable terminal block			6-pin removable terminal block	
	Consumption	5.28 watts	5.28 watts	6.7 watts	12 watts	8.7 watts
Mechanical	Dimensions (W x D x H)	30 x 10 x 104 mm	32 x 87.8 x 135 mm	32 x 87.8 x 135 mm	32 x 87.8 x 135 mm	56 x 87.8 x 135 mm
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	DIN-rail, Wall-mountable			DIN-rail, Wall-mountable	
Environment	Operating Temperature	-40~75°C			-40~75°C	
	Operating Humidity	5% to 95%RH (Non-condensing)			5% to 95%RH (Non-condensing)	
Regulatory	Emissions / Safety	FCC Class A, CE Class A, UL, cUL			FCC Class A, CE Class A	
	Stability	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)				





Industrial Media Converters

		FAST ETHERNET			10G
PART NUMBER		PL-IFT-802T	PL-IFT-802TS15	PL-IFT-805AT	PL-IXT-705AT
Product					
Copper	Copper Interface	1 x 10/100BASE-TX, RJ45, Auto-negotiation, Auto-MDI/MDI-X			1 x 10/1000/2500/5000/10G N BASE-T RJ45
Fibre	Optical Interface	100BASE-FX	100BASE-FX	100BASE-FX	10G BASE-FX
	Optical Connector	SC	SC	SFP	SFP+
	Optical Mode	Multimode	Single-mode	Vary on module	Vary on module
	Max. Distance	2 km	15 km	Vary on module	Vary on module
	Optic Wavelength	1310 nm	1310 nm	Vary on module	Vary on module
	Fibre-optic Cable	50/125 µm or 62.5/125 µm multimode	9/125 µm single-mode	Vary on module	Vary on module
Mechanical	Dimensions (W x D x H)	32 x 87.8 135 mm	32 x 87.8 135 mm	32 x 87.8 135 mm	32 x 87.8 135 mm
	Weight	400 g	400 g	400 g	400 g
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable
Power	Inputs	Dual 12~48V DC	Dual 12~48V DC	Dual 12~48V DC	Dual 12~48V DC
	Connector	6-pin removable terminal block	6-pin removable terminal block	6-pin removable terminal block	6-pin removable terminal block
	PoE	-	-	-	-
	Consumption	4.6 watts max.	4.6 watts max.	4.6 watts max.	9 watts max.
Environment	Operating Temperature	-40~75°C		-40~75°C	-40~75°C
	Operating Humidity	5% to 95%RH (Non-condensing)		5% to 95%RH (Non-condensing)	
Regulatory	Emissions	FCC Class A, CE Class A		FCC Class A, CE Class A	
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)			





		GIGABIT					
PART NUMBER		PL-IGT-805AT	PL-IGT-1205AT	PL-IGT-902T	PL-IGT-902TS	PL-IGT-905A	PL-IGTP-805AT
Product							 PoE 30 Watts
Copper	Copper Interface	1 x 10/100/1000BASE-T, RJ45, Auto-negotiation, Auto-MDI/MDI-X					
Fibre	Optical Interface	100/1000BASE-X	100/1000BASE-X	1000BASE-LX	1000BASE-LX	100/1000BASE-X	1000BASE-X
	Optical Connector	SFP	SFP	SC	SC	SFP	SFP
	Optical Mode	Vary on module		Multimode	Single-mode	Vary on module	
	Max. Distance	Vary on module		200 m~550 m	10 km	Vary on module	
	Optic Wavelength	Vary on module		850 nm	1310 nm	Vary on module	
	Fibre-optic Cable	Vary on module		50/125 µm or 62.5/125 µm multimode	9/125 µm single-mode	Vary on module	
Mechanical	Dimensions (W x D x H)	32 x 87.8 135 mm			32 x 87.8 135 mm		
	Weight	458 g	400 g	405 g	405 g	405 g	500 g
	Enclosure	IP30 metal			IP30 metal		
	Mounting	DIN-rail, wall-mountable			DIN-rail, wall-mountable		
Power	Inputs	Dual 12~48V DC			Dual 12~48V DC		
	Connector	6-pin removable terminal block			6-pin removable terminal block		
	PoE	-	-	-	-	-	IEEE 802.3af/at PoE Injector
	Consumption	3.3 watts max.	7.5 watts max.	7.7 watts max.	7.7 watts max.	7.7 watts max.	33 watts max.
Environment	Operating Temperature	-40~75°C		-30~75°C		-40~75°C	
	Operating Humidity	5% to 95%RH (Non-condensing)					
Regulatory	Emissions	FCC Class A, CE Class A					
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)					
Management		-	-	Web, SNMPv1, v2c, RMON, 802.3ah OAM/TS-1000 OAM, in/out bandwidth control, 802.1QVLAN, Q-in-Q, TOS/DSCP/802.1p QoS, TCP/UDP packet filter		-	

INDUSTRIAL NETWORKING AND MEDIA CONVERSION

Industrial Ethernet Extenders



PART NUMBER		DIN-RAIL		WALL-MOUNT	
		PL-IVC-2002	PL-IVC-234GT	PL-VC-201A	PL-VC-202A
Product					
Copper	Copper Interface	4 x 10/100BASE-TX RJ45	4 x 10/100/1000BASE-T	1 x 10/100BASE-TX RJ45	
Extended Port	Coaxial	1 BNC, female connector		-	1 BNC, female connector
	UTP	1 RJ11, female connector		1 RJ11, female connector	-
	Max. Performance (Download/Upload)	<ul style="list-style-type: none"> Coaxial Cable: Up to 100/65 Mbps@300 m UTP: Up to 100/60 Mbps@30 m 	<ul style="list-style-type: none"> Coaxial Cable: Up to 200/95 Mbps@200 m UTP: Up to 200/100 Mbps@200 m 	Up to 100/65 Mbps@300 m	
	Max. Distance	<ul style="list-style-type: none"> Coaxial Cable: Up to 2.4 km UTP: Up to 1.4 km 	<ul style="list-style-type: none"> Coaxial Cable: Up to 1.2 km UTP: Up to 1.2 km 	Up to 1.6 km	Up to 3 km
	Cabling	<ul style="list-style-type: none"> Coaxial Cable: 50ohm, RG58A/U, RG58/U75ohm, RG6 Twisted-pair telephone wires (AWG24 or better) 		Twisted-pair telephone wires (AWG24 or better)	Coaxial Cable: 50ohm, RG58A/U, RG58/U75ohm, RG6
Mechanical	Dimensions (W x D x H)	32 x 87.8 135 mm	32 x 87.8 135 mm	70 x 97 x 26 mm	70 x 97 x 26 mm
	Weight	495 g	631 g	400 g	405 g
	Enclosure	IP30 metal	IP30 metal	metal	metal
	Mounting	DIN-rail, wall-mountable		Wall-mountable, chassis installation	
Power	Inputs	Dual 12~48V DC	Dual 12~48V DC	5V DC	5V DC
	Connector	6-pin removable terminal block		DC Jack	DC Jack
	Consumption	5.64 watts max.	6.64 watts max.	5.64 watts max.	6.3 watts max.
Environment	Operating Temperature	-40~75°C		0~50°C	
	Operating Humidity	5% to 95%RH (Non-condensing)		10% to 95%RH (Non-condensing)	
Regulatory	Emissions	FCC Class A, CE Class A		FCC Class A, CE Class A	
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)		-	-
Functionality		Master/Slave mode select, selectable BNC and RJ11 mode, selectable target band plan, selectable target SNR mode		CO/CPE mode select, selectable fast and interleaved mode, selectable target band plan, selectable target SNR mode	



Industrial Serial over Ethernet Converters




INDUSTRIAL SERIAL OVER ETHERNET CONVERTERS					
PART NUMBER		PL-ICS-2100	PL-ICS-2102	PL-ICS-2102S15	PL-ICS-2105A
Product					
Serial Port	Interface	RS232/RS422/RS485	RS232/RS422/RS485	RS232/RS422/RS485	RS232/RS422/RS485
	Connector	RS232: DB9, RS422/RS485: 4-pin terminal block			
	Baud Rate (Data Rate)	100 bps to 921 Kbps	100 bps to 921 Kbps	100 bps to 921 Kbps	100 bps to 921 Kbps
	Data Bits	5, 6, 7, 8	5, 6, 7, 8	5, 6, 7, 8	5, 6, 7, 8
	Stop Bits	1, 2	1, 2	1, 2	1, 2
	Flow Control	None, RTS/CTS, Xon/Xoff	None, RTS/CTS, Xon/Xoff	None, RTS/CTS, Xon/Xoff	None, RTS/CTS, Xon/Xoff
Fast Ethernet Port	Standard	10/100BASE-TX	100BASE-FX	100BASE-FX	100BASE-FX
	Connector	RJ45	SC/Multimode	SC/Single-mode	SFP/Vary on module
	Optical Wavelength	-	1300 nm	1310 nm	Vary on module
	Max. Distance	100 m	2 km	15 km	Vary on module
	Protection	Built-in 1.5KV magnetic isolation		Built-in 1.5KV magnetic isolation	
Power	Power Supply	Dual 12~48V DC, 6-pin removable terminal block		Dual 12~48V DC, 6-pin removable terminal block	
	Power Consumption	10.1 watts	10.1 watts	10.1 watts	10.1 watts
Mechanical	Dimensions (W x D x H)	32 x 87.8 135 mm	32 x 87.8 135 mm	32 x 87.8 135 mm	32 x 87.8 135 mm
	Enclosure	IP30 metal	IP30 metal	IP30 metal	IP30 metal
	Mounting	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable	DIN-rail, wall-mountable
Environment	Operating Temperature	-10~60°C	-10~60°C	-10~60°C	-10~60°C
	Operating Humidity	10% to 90%RH (Non-condensing)		10% to 90%RH (Non-condensing)	
Regulatory	Emissions	FCC Class A, CE Class A		FCC Class A, CE Class A	
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)			
Management	Interface	Web management, VCOM		Web management, VCOM	
	Operation Mode	Virtual COM port, TCP server, UDP server, UDP client, pair connection			

INDUSTRIAL NETWORKING AND MEDIA CONVERSION



Industrial PoE+ Injectors / Splitters

		ULTRA POE / 802.3AT POE+ INJECTORS	
PART NUMBER		PL-IPOE-162	PL-IPOE-171
Product			
Hardware	RJ45 Data Input Port	1 x RJ45	1 x RJ45
	RJ45 Data + Power Output Port	1 x RJ45	1 x RJ45
	Data Rate	10/100/1000 Mbps	10/100/1000 Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	Ultra PoE (802.3at Compliant)
	PSE Type	Mid-span	Both Mid-span and End-span
	Power Pin Assignment	4/5(+), 7/8(-)	1/2(-), 3/6(+), 4/5(+), 7/8(-)
	PoE Port	1	1
	PoE Power Output	56V DC	52~56V DC
	PoE Ability	30 watts	60 watts
Physical	Dimensions (W x D x H)	32 x 87 x 135 mm	32 x 87 x 135 mm
	Power Supply	External	External
	Power Requirements	Dual 24~48V DC, 24V AC	Dual 48~56V DC
	Operating Temperature	-40~75°C	-40~75°C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE

		ULTRA POE / 802.3AT POE+ SPLITTERS	
PART NUMBER		PL-IPOE-162S	PL-IPOE-171S
Product			
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45
	Data Output Port	1 x RJ45	1 x RJ45
	DC Output Voltage	12V/24V DC, max. 2A	12V/24V DC, max. 2.25A
	DIP Switch	Adjustable 12V/24V DC	Adjustable 12V/24V DC
	Data Rate	10/100/1000 Mbps	10/100/1000 Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	Ultra PoE (802.3at Compliant)
	PD Type	Both Mid-span and End-span	Both Mid-span and End-span
	PoE Power Input	52~56V DC	52~56V DC
Physical	Dimensions (W x D x H)	32 x 87 x 135 mm	32 x 87 x 135 mm
	Operating Temperature	-40~75°C	-40~75°C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE







		POE CONVERTER	POE EXTENDER	POE TESTER
PART NUMBER		PL-POE-165S	PL-IPOE-E174	PL-POE-TESTER
Product				
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45
	Data Output Port	1 x RJ45	4 x RJ45	-
	DC Output Voltage	Passive PoE 12/19/24V DC, max. 700mA	PoE 44~57V DC	-
	DIP Switch	Adjustable 12/19/24V DC	-	-
	Data Rate	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	Ultra PoE (802.3at Compliant)	802.3af/802.3at/Ultra PoE
	PD Type	Mid-span	Both Mid-span and End-span	Mid-span and End-span
	PoE Power Input	48~56V DC	44~56V DC	36~57V DC
Physical	Dimensions (W x D x H)	97 x 70 x 26 mm	56 x 87.8 x 135 mm	70 x 23 x 22 mm
	Operating Temperature	-40~75°C	-40~75°C	-10~60°C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	CE compliance

Industrial Gateway







INDUSTRIAL MODBUS GATEWAY				
PART NUMBER		PL-IMG-120T	PL-IMG-110T	
Product				
Hardware	RJ-45 Port	1 x 10/100Base-TX, auto MDI/MDIX		
	Serial Port	5-contact Terminal Block RS422/RS485 x 2	5-contact Terminal Block RS422/RS485 x 1	
	Baud Rate	300 bps to 115200 bps		300 bps to 115200 kbps
	Parity Type	Odd, Even, None, Space, Mark		
	Signals	RS422 : Tx+, Tx-, GND, Rx+, Rx- RS485: Data A (+), GND, Data B (-)		
	Operation Mode	Modbus RTU/ASC II Master & Slave		
	Surge Protection	1KV	1KV	
	Multi-master and Multi-drop	Master mode: 32 TCP slaves Slave mode: 16 TCP masters		
Power	Power Input Connector	2-contact Terminal Block (DC 9-48V)		
	Power Consumption	1.61 Watts (max.)		
Regulatory	Emissions	FCC Part 15 Class B, CE		
	Stability	IEC60068-2-32 (free fall)		
		IEC60068-2-27 (shock) IEC60068-2-6 (vibration)		
Mechanical	Dimension (W x D x H)	69 x 22 x 100 mm		
	Enclosure	IP40 metal case		
	Mounting	Wallmount-type		
Management	Management Interface	Remote IP-based Web/Telnet		
	Utility	Modbus Gateway Utility/Discovery Utility		
Environment	Operating Temperature	-40~75°C		
	Operating Humidity	5~95% (non-condensing)		

INDUSTRIAL NETWORKING AND MEDIA CONVERSION





Industrial Gigabit SFP Modules





PART NUMBER	PL-MGB-TSX	PL-MGB-TLX	PL-MGB-TL30	PL-MGB-TL70	PL-MFB-TFX	PL-MFB-TF20
Product						
PHY Type	1000BASE-SX	1000BASE-LX	1000BASE-LX	1000BASE-LX	100BASE-FX	100BASE-FX
Fibre Type	Multimode	Single-mode	Single-mode	Single-mode	Multimode	Single-mode
Connector	LC	LC	LC	LC	LC	LC
Wavelength	850 nm	1310 nm	1310 nm	1550 nm	1310 nm	1310 nm
Maximum Distance	220 m & 550 m	10 km	30 km	70 km	2 km	20 km
Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C

Fast Ethernet Transceivers (100BASE-BX, Single Fibre Bi-directional SFP)








PART NUMBER	PL-MFB-TSA	PL-MFB-TSB	PL-MFB-TFA20	PL-MFB-TFB20	PL-MFB-TFA40	PL-MFB-TFB40
Product						
Speed (Mbps)	100	100	100	100	100	100
Connector Interface	WDM (LC)	WDM (LC)	WDM (LC)	WDM (LC)	WDM (LC)	WDM (LC)
Fibre Mode	Multimode	Multimode	Single-mode	Single-mode	Single-mode	Single-mode
Distance	2 km	2 km	20 km	20 km	40 km	40 km
Wavelength (TX)	1310 nm	1550 nm	1310 nm	1550 nm	1310 nm	1550 nm
Wavelength (RX)	1550 nm	1310 nm	1550 nm	1310 nm	1550 nm	1310 nm
Operating Temp.	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C

Gigabit Ethernet Transceivers (1000BASE-BX, Single Fibre Bi-directional SFP)

PART NUMBER	PL-MGB-TLA10	PL-MGB-TLB10	PL-MGB-TLA20	PL-MGB-TLB20
Product				
Speed (Mbps)	1000	1000	1000	1000
Connector Interface	WDM (LC)	WDM (LC)	WDM (LC)	WDM (LC)
Fibre Mode	Single-mode	Single-mode	Single-mode	Single-mode
Distance	10 km	10 km	20 km	20 km
Wavelength (TX)	1310 nm	1550 nm	1310 nm	1550 nm
Wavelength (RX)	1550 nm	1310 nm	1550 nm	1310 nm
Operating Temp.	-40~75°C	-40~75°C	-40~75°C	-40~75°C

MODEL	PL-MGB-TLA40	PL-MGB-TLB40	PL-MGB-TLA60	PL-MGB-TLB60
Product				
Speed (Mbps)	1000	1000	1000	1000
Connector Interface	WDM (LC)	WDM (LC)	WDM (LC)	WDM (LC)
Fibre Mode	Single-mode	Single-mode	Single-mode	Single-mode
Distance	40 km	40 km	60 km	60 km
Wavelength (TX)	1310 nm	1550 nm	1310 nm	1550 nm
Wavelength (RX)	1550 nm	1310 nm	1550 nm	1310 nm
Operating Temp.	-40~75°C	-40~75°C	-40~75°C	-40~75°C

DIN-rail Power Supplies

PART NUMBER		PL-PWR-40-24	PL-PWR-60-24	PL-PWR-75-24	PL-PWR-75-48	PL-PWR-120-48	PL-PWR-240-48	PL-PWR-480-48
Product								
Power Output	Budget	40 watts	60 watts	75 watts	75 watts	120 watts	240 watts	480 watts
	DC Voltage	24V, 1.7A	24V, 2.5A	24V, 3.2A	48V, 1.6A	48V, 2.5A	48V, 5A	48V, 10A
Power Input	Voltage	100-240V AC, 50/60Hz, 1.1A	100-240V AC, 50/60Hz, 1.8A	100-240V AC, 50/60Hz, 2.0A	100-240V 50/60Hz, 1.45A	100-240V 50/60Hz, 2.25A	100-240V 50/60Hz, 2.5A	100-240V 50/60Hz, 4.8A
	Mechanical	Dimensions (W x H x D)	40 x 90 x 100 mm	40 x 90 x 100 mm	55 x 125 x 100 mm	32 x 125 x 102 mm	65 x 125 x 100 mm	63 x 125 x 113 mm
	Weight	0.3 kg	0.33 kg	0.6 kg	0.51 kg	0.6 kg	1 kg	1.5 kg
	Installation	DIN-rail TS-35/7.5 or 15			DIN-rail TS/35/7.5 or 15		DIN-rail TS/35/7.5 or 15	
Environment	Operating Temperature	-20~70°C			-20~70°C		-20~70°C	
	Storage Temperature	-40~85°C			-40~85°C		-40~85°C	
	Operating Humidity	20~90%	20~90%	20~90%	20~95%	20~95%	20~95%	20~95%
	Storage Humidity	10~95% (Non-condensing)			10~95% (Non-condensing)		10~95% (Non-condensing)	
Safety & Function		UL508, ul60950-1, TUV EN60950-1 approved, NEC class2/LPS compliant			UL508, UL60950-1, TUV EN6095-1 approved			

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