PACSystems™ Industrial Ethernet Switches
## Provide fast, seamless, and resilient connectivity

At Emerson, we've thought differently about what you need at the point of control and have engineered powerful, rugged, and compact industrial Ethernet switches to provide critical machine-to-machine information:

■ **Standalone and connected devices to support unmanaged, fully managed, rack mounted, and PROFINET applications**

■ **Designed for plant process areas to work in harsh environments subject to extreme, temperatures, humidity, and vibration**

■ **Work with an Ethernet LAN to replace proprietary networks, improve network reliability, and simplify deployment**

High performance & Connectivity

Our industrial-grade managed Ethernet switches, with redundant ring technology, reliably support the largest amounts of real-time data in the market. Managed switches protect your mission-critical applications from network interruptions or temporary malfunctions with Fast Network Recovery technology. PACSystems industrial Ethernet switches offer one of the fastest recovery times in the industry.
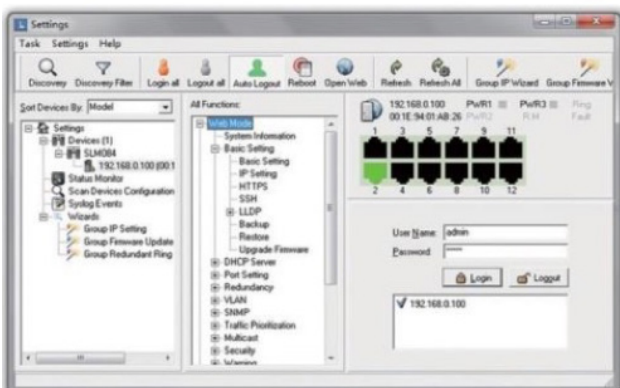
Rugged & Reliable

PACSystems industrial Ethernet switches are uniquely designed with redundant power inputs, the broadest operating temperature range available, and Fast Network Recovery technology to enable outstanding reliability and stability in harsh environments.

This superior, rugged design makes the PACSystems industrial Ethernet Switch ideal for Pipeline, Transportation, Well2Tank, Water/ Waste Water, and other demanding applications.

Easy to Troubleshoot

Available PROFINET Managed switches make it easier for OT Operators to troubleshoot since they can view the switches as part of their control system. With the network management software, the network administrator can manage centralized configuration, visualize management, and complete network monitoring with an early warning system. These features work together to maintain a stable and reliable industrial network.

PACSYSTEMS™

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Unmanaged & Lite Managed Switch Specification

Part Number	IC086SLN050	IC086SLN080	IC086SLN040	IC086SLM042MM IC086SLN042SS	IC086SLM042MM IC086SLN042SS
Managed	No	No	No	Yes	Yes
10/100BaseT(X) Ports	5	8	24	4	4
100Base-FX Ports	-	-	-	2	2
Fiber Mode	-	-	-	MM – Multi Mode SS- Single Mode	MM – Multi Mode SS- Single Mode
Ethernet Standard	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3x for Flow control		IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control	EEE 802.3: 10Base-T IEEE 802.3u: 100Base-TX and 100Base-FX IEEE 802.3x for Flow control IEEE 802.1D: STP IEEE 802.1w: RSTP IEEE 802.1AB: LLDP)	
MAC Table	1024	2048	8192	2048	1024
Processing	Store-and-Forward	Store-and-Forward	Store-and-Forward	Store-and-Forward	Store-and-Forward
Redundant Input Power	Yes	Yes	Yes	Yes	Yes
Power Consumption (Typ.)	3 Watts	4 Watts	9.6 Watts	7 Watts	7 Watts
Overload Current Protection	Yes	Yes	Yes	Yes	Yes
Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
Enclosure	IP30	IP30	IP30	IP30	IP30
Dimensions (W x D x H in mm)	26.1 × 70 × 95	26.1 x 94.9 x 144.3	96 .4x108.5 x 154	52 x 106.1 x 144.3	52 x 106.1 x 145.4
Weight	205g	391g	1052g	382g	670g
Storage Temperature	-40℃ to +85℃	-40℃ to +85℃	-40℃ to +85℃	-40℃ to +85℃	-40℃ to +85℃
Operating Temperature	-40℃ to +70℃	-40℃ to +70℃	-40℃ to +70℃	-40℃ to +70℃	-40℃ to +70℃
Operating Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
EMI	FCC Part 15, CISPR (EN55022) class A				
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11				
Shock	IEC60060-2-27				
Free Fall	IEC60068-2-32				
Vibration	IEC60068-2-6				
Safety	EN62368-1				

Managed Switch Specification

Part Number	IC086SLM082	IC086SLM162	IC086SLM084
10/100Base-T(X) Ports	8	16	-
10/100/1000Base-T(X) Ports	-	-	8
100/1000Base-X SFP Port	2	-	12
Gigabit Combo Port with 10/100/1000Base-T(X) and100/1000Base-X SFP ports	-	2	-
Ethernet Standard	IEEE 802.3: 10Base-T IEEE 802.3u: 100Base-TX and 100Base-FX IEEE 802.3z 1000Base-X IEEE 802.3x: flow control IEEE 802.3ad: LACP IEEE 802.1D: STP IEEE 802.1p: COS IEEE 802.1Q: VLAN tagging IEEE 802.1W: RSTP IEEE 802.1s: MSTP IEEE 802.1X: Authentication IEEE 802.1AB: LLDP		IEEE 802.3: 10Base-T IEEE 802.3u: 100Base-TX and 100Base-FX IEEE 802.3z: 1000Base-X IEEE 802.3ab: 1000Base-T IEEE 802.3x : flow control IEEE 802.3ad: LACP IEEE 802.1D: STP IEEE 802.1p: COS IEEE 802.1Q: VLAN tagging IEEE 802.1W: RSTP IEEE 802.1s: MSTP IEEE 802.1x : Authentication IEEE 802.1AB: LLDP
MAC Table	8192		8192
Processing	Store-and-Forward		Store-and-Forward
Jumbo Frame	–		9.6K
Security Feature	Enable/Disable ports, MAC based ports security, Port-based network access control (802.1x), support Q-in-Q VLAN for performance &security to expand the VLAN space. VLAN top segregate and secure network traffic, RADIUS centralized password management, SNMP v 1/v2c/v3 encrypted authentication and access security		Device blinding security feature. Enable/Disable ports. MAC-based port security. Port-based network access control (802.1x). VLAN to segregate and secure network traffic. RADIUS centralized password management. SNMP v3 encrypted authentication and access security.
Software Feature	STP/RSTP/MSTP (IEEE802.1D/w/s) Redundant Ring with recovery time less than 10ms over 250 units. TOS/ Diffserv supported. Quality of Service (802.1p) for real-time traffic. VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping for multicast filtering. Port configuration, status, statistics, monitoring, security. SNTP for synchronizing of clocks over network. Support 1588 PTP Client (Precision Time Protocol) clock synchronization. DHCP Server / Client support. Port Trunk support. MVR (Multicast VLAN Registration)		STP/RSTP/MSTP (IEEE 802.1D/w/s). Redundant Ring with recovery time less than 30ms over 250 units. TOS/Diffserv supported. Quality of Service (802.1p) for real-time traffic. VLAN (802.1Q) with VLAN tagging and GVRP supported. IGMP Snooping. IP-based bandwidth management. Application-based QoS management. DOS/ DDOS auto prevention. Port configuration, status, statistics, monitoring, security. DHCP Client/ Server.

Managed Switch Specification (Continued)

Part Number	IC086SLM082	IC086SLM162	IC086SLM084
Network Redundancy	STP, RSTP, MSTP Redundant-Ring		STP, RSTP, MSTP Redundant-Ring
QoS	Yes		Yes
Warning/ Monitoring	Relay output for fault event alarming. Syslog server / client to record and view events. Include SMTP for event warning notification via email. Event selection support.		Relay output for fault event alarming. Syslog server / client to record and view events. Include SMTP for event warning notification via email. Event selection support.
Redundant Input Power	Triple DC inputs. 12~48VDC on 7-pin terminal block, 12~45VDC on power jack	Dual DC inputs. 12~48 VDC on 6-pin terminal block	Dual DC inputs. 12~48 VDC on 6-pin terminal block
Power Consumption (Typ.)	9 Watts	12 Watts	16.8 Watts
Overload Current Protection	Yes	Yes	Yes
Reverse Polarity Protection	Yes	Yes	Yes
IP degree	IP30	IP30	IP30
Dimension (W x D x H in mm)	52 x 106.1 x 144.3	96.4 x 108.5 x 154	96.4 x 108.5 x 154
Weight	730g	1220g	1210g
Storage Temp	-40°C to +85°C		
Operation Temp	-40°C to +70°C		
Operation Humidity	5% to 95% non-condensing		
EMI	FCC Part 15, CISPR (EN55022) class A		
EMS	EN61000-4-2 (ESD), EN61000- 4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4- 8, EN61000-4-11		
Shock	IEC60068-2-27		
free fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Safety	EN60950-1	EN62368-1	EN60950-1

Rack Mounted [Layer 3] Switch Specification

Part Number	IC086SLM242	IC086SLM168
10/100Base-T(X)	24	-
100/1000Base-X SFP Port	-	8
Gigabit Combo Port with 10/100/1000Base-T(X) and 100/1000Base-X SFP ports	2	16
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q VLAN Tag IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple spanning tree protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC Table	8192	8192
Priority Queues	4	4
Processing	Store-and-Forward	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 8.8Gbps Max. Number of Available VLANs: 4095 IGMP multicast groups: 256 for each VLAN Port rate limiting: User Define	Switching latency: 7 us Switching bandwidth: 48Gbps Max. Number of Available VLANs: 4095 IGMP multicast groups: 256 for each VLAN Port rate limiting: User Define
Jumbo Frame	9.6K	9.6K
Security Feature	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMP V1/V2c/V3 encrypted authentication and access security	HTTPS/SSH Enhanced network security protocol Safety device binding Enable/disable ports, MAC based port security Port based network access control (802.1x) single 802.1x and multi 802.1x MAC address based authentication QoS distribution Visitor VLAN The MAC address restriction Authentication and authorization of Web and CLI VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMP V1/V2c/V3 encrypted authentication and access security

Rack Mounted [Layer 3] Switch Specification (Continued)

Part Number	IC086SLM242	IC086SLM168
Software Feature	STP/RSTP (IEEE 802.1D/w) Redundant Ring with recovery time less than 10ms over 250 units Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP v2/v3 (IGMP snooping support) for multi-cast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network DHCP Server / Client support Port Trunk support	STP/RSTP (IEEE 802.1D/w) Redundant Ring with recovery time less than 30ms over 250 units Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP snooping Bandwidth management based on IP Management application based on QoS DoS/DDoS automatic defense Port configuration, monitoring, security, state DHCP client / server / relay SMTP client Modbus TCP
Network Redundancy	Redundant-Ring, STP, RSTP	Redundant-Ring, STP, RSTP, MSTP
QoS	Yes	Yes
Warning/ Monitoring	The fault alarm output Through the system log /server/client record and browse events Support SMTP through Email issued warning notice Support system log event selection	Through the system log /server/client record and browse events Support SMTP through Email issued warning notice Support system log event selection
Input Power	Dual 100-240VAC	100-240VAC
Power Consumption (Typ.)	15.2Watts	28.2 W
Overload Current Protection	Yes	-
IP degree	IP30	IP30
Dimension (W x D x H mm)	440 x 200 x 44	431 x 342 x 44
Weight (g)	2695g	4117g
Storage Temp	-40°C to +85°C	
Operation Temp	-40°C to +70°C	
Operation Humidity	5% to 95% non-condensing	
EMI	FCC Part 15, CISPR (EN55032) class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN62368-1	

Rack Mounted [Layer 3] Switch Specification (Continued)

Part Number	IC086SLM244	IC086SLM244LL (Layer 3)
10/100Base-T(X)	24	24
100/1000Base-X SFP Port	4	-
1000/10000Base-X SFP Port	-	4
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q VLAN Tag IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple spanning tree protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3ae: 10Gigabit Ethernet IEEE IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q VLAN Tag IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple spanning tree protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC Table	8192	32K
Priority Queues	8	8
Processing	Store-and-Forward	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 56Gbps Max. Number of Available VLANs:4095 IGMP multicast groups: 256 for each VLAN Port rate limiting: User Define	Switching latency: 7 us Switching bandwidth: 128Gbps Max. Number of Available VLANs: 4095 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define
Jumbo Frame	10K	10K
Security Feature	HTTPS/SSH Enhanced network security protocol Safety device binding Enable/disable ports, MAC based port security Port based network access control (802.1x) single 802.1x and multi 802.1x MAC address based authentication QoS distribution Visitor VLAN Specifications The MAC address restriction TACACS+ Authentication and authorization of Web and CLI VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMP V1/V2c/V3 encrypted authentication and access security	Device binding security feature. Enable/disable ports, MAC based port security Port based network access control (802.1x) single 802.1x and multi 802.1x MAC address based authentication QoS distribution Visitor VLAN The MAC address limit TACACS+ VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMP V1/V2c/V3 encrypted authentication and access security. Web and CLI authentication and authorization (15 Levels) IP source guard.

Rack Mounted [Layer 3] Switch Specification (Continued)

Part Number	IC086SLM242	IC086SLM168
Software Feature	STP/RSTP (IEEE 802.1D/w) Redundant Ring with recovery time less than 30ms over 250 units Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP snooping Bandwidth management based on IP Management application based on QoS DoS/DDoS automatic defense Port configuration, monitoring, security, state DHCP client / server / relay The SMTP client Modbus TCP	Hardware routing, RIP and static routing. IEEE 1588 v2 clock synchronization IEEE 802.1D Bridge, auto MAC address learning/ aging and MAC address(static) Multiple Registration Protocol (MRP) Multiple VLAN Registration Protocol (MVRP) TOS/Diffserv supported QoS (802.1p) for real time traffic VLAN(802.1Q) with VLAN tagging and GVRP support Voice VLAN IGMP v2/v3 Snooping IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port Configuration, status, statistics, monitoring, security DHCP Sever/Client/Snooping, DHCP Relay DNS client proxy ARP inspection SMTP client
Network Redundancy	Redundant-Ring, STP, RSTP, MSTP	Redundant-Ring, STP, RSTP, MSTP
Warning/ Monitoring	Through the system log /server/client record and browse events Support SMTP through Email issued warning notice Support system log event selection	Through the system log /server/client record and browse events Support SMTP through Email issued warning notice Support system log event selection
Input Power	100-240VAC	Dual 100-240VAC/100-370VDC
Power Consumption (Typ.)	36Watts	43.5 W
Overload Current Protection	-	Yes
IP degree	IP30	IP30
Dimension (W x D x H mm)	431.7 x 342 x 44	440x 356 x 44
Weight (g)	4210g	6600g
Operation Temp	-40°C to +70°C	
Operation Humidity	5% to 95% non-condensing	
EMI	FCC Part 15, CISPR (EN55032) class A	FCC Part 15, CISPR (EN55032) class A EN50155 (EN50121-3-2, EN55011, EN50121-4)
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	

PROFINET Ethernet Switch Specification

Part Number	IC086GLM064	IC086GLM082	IC086GLM104
10/100Base-T(X)	6	8	10
100/1000Base-X SFP Port	4	2	4
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1Q VLAN Tag IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple spanning tree protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)		
MAC Address	8K		
Priority Queues	8		
Processing	Store-and-Forward, L2 wire-speed/non-blocking switching engine		
Switch Properties	VLANs: 256 IGMP v1, v2 and V3 IGMP snooping and querying		
Jumbo Frame	9K Bytes		
Security Feature	HTTP, HTTPs, SSH IP and MAC-based access control IEEE 802.1X authentication Network Access Control Multicast/Broadcast/Flooding Storm Control Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Protocol-based VLAN Radius Client for Management Cisco-like CLI (command line interface) WEB-based Management SNMP v1, v2c & v3 Telnet (5 sessions) Configuration import/export Firmware upgrade		
Software Feature	IGMP v1, v2 and v3 with up to 512 multicast groups IGMP snooping and querying Immediate leave and leave proxy Throttling and filtering IEEE 802.1ab Link layer Discovery Protocol (LLDP) DHCP Client, Server, Snooping, Relay Media Redundancy Protocol		
PROFINET Feature	PROFINET GSD file, PROFINET I/O parameters, I/O cyclic data PROFINET IO version 2.3, GSDML V2.25 Plug-and-play operation and compatibility with the PROFINET standard v2.3 PNIO System Redundancy MRP Manager MRP Client		

PROFINET Ethernet Switch Specification (Continued)

Part Number	IC086GLM064	IC086GLM082	IC086GLM104
Network Redundancy	Link loss recovery < 20ms Single & Multiple rings; dual-homing; ring-coupling; IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)		
Diagnostic	Syslog Ethernet Copper connection diagnostic tool		
Redundant Input Power	12-58VDC		
Power Consumption (Typ.)	Max. 14Watt	Max. 12.5Watt	Max. 17Watt
Transient Protection	> 15,000 watts peak		
Reverse Power Protection	Yes		
IP degree	IP30		
Dimension (W x D x H mm)	77 x 128 x 154	77 x 128 x 154	77 x 128 x 154
Weight (g)	1049g	1047g	1077g
Operation Temp	-40°C to +70°C		
Operation Humidity	5% to 95% non-condensing		
EMI	FCC Part 15, CISPR (EN55032) class A		
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS)		
Shock	IEC60068-2-27		
Free Fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Safety	UL/CSA C22, EN61010-1, CE		

Accessories

Part Number	IC086SFP1MM	IC086SFP1SS	IC086SFP2MM	IC086SFP2SS	IC086SFP3MM
Speed	100Mbps	100Mbps	1000Mbps	1000Mbps	10000Mbps
Fiber Mode	Multi-Mode	Single-Mode	Multi-Mode	Single-Mode	Multi -Mode
Typical Distance	2 km	30 km	550 m	10 km	300m
Operating Temperature	40°C to +85°C	40°C to +85°C	40°C to +85°C	40°C to +85°C	40°C to +85°C
Wavelength	1310 nm	1310 nm	850 nm	1310 nm	850 nm
Optical Output Power 9/125μm fiber (Max. TX)	-	-8 dBm	-	-3 dBm	
Optical Output Power 9/125μm fiber (Min. TX)	-	-15 dBm	-	-9.5 dBm	
Optical Output Power 62.5/125μm fiber (Max. TX)	-14 dBm	-	-4 dBm		-1dBm
Optical Output Power 62.5/125μm fiber (Min. TX)	-20 dBm	-	-9.5 dBm		-6.5 dBm
Optical Output Power 50/125μm fiber (Max. TX)	-14 dBm	-	-4 dBm	-	-1dBm
Optical Output Power 50/125μm fiber (Min. TX)	-23.5 dBm	-	-9.5 dBm	-	-6.5 dBm
Optical Input Power-minimum (Sensitivity)	-31 dBm	-34 dBm	-18 dBm	-20 dBm	-9.9 dBm
Optical Input Power maximum (Saturation)	-8 dBm	0 dBm	0 dBm	-3 dBm	-1dBm
Link Budget	7.5 dB	19 dB	8.5 dB	10.5 dB	3.4 dB

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