

# Product Matrix Selection

Industrial Entry Switches					Industrial Smart-Ring Switches		Industrial Converters Series		Industrial PoE Switches				
IES-0005T	IES-0008T	IES-0104FT	IES-0204FT	IES-0216C	IES-1005T	IES-1204FT	IEC-0101FT	IGC-0101GB	IPEC-0101FT	IPES-0005T-4	IPES-0104FT	IPES-2208C	IPES-2224C-24
													

# Product Matrix Selection

## HARDWARE FEATURES

<b>Port</b>														<b>Port</b>	
10/100TX	5	8	4	4	16	5	4	1	-	1	5	4	8	24	10/100TX
100FX	-	-	1 (SC)	2 (SC)	-	-	-	1 (SC)	-	1 (SC)	-	1 (SC)	-	-	100FX
10/100/1000T	-	-	-	-	-	-	-	-	1	-	-	-	-	-	10/100/1000T
100M SFP	-	-	-	-	-	-	2	-	-	-	-	-	-	-	100M SFP
1000M SFP	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1000M SFP
10/100/1000T/Dual Speed SFP Combo	-	-	-	-	2	-	-	-	-	-	-	-	-	-	10/100/1000T/Dual Speed SFP Combo
RS232 connector	-	-	-	-	-	-	-	-	-	-	-	2	2 (1000M SFP only)	2	10/100/1000T/Dual Speed SFP Combo
PoE Injector	-	-	-	-	-	-	-	-	1	4	4	8	24	-	PoE Injector
Switching Fabric	1.0Gbps	1.6Gbps	1.0Gbps	1.2Gbps	7.2Gbps	1.0Gbps	1.2Gbps	-	-	1.0Gbps	1.0Gbps	5.6Gbps	8.8Gbps	8.8Gbps	Switching Fabric
Packet Buffer	448Kbits	448Kbits	448Kbits	448Kbits	1Mbits	1Mbits	1Mbits	-	-	448Kbits	448Kbits	1Mbits	4Mbits	4Mbits	Packet Buffer
Jumbo Frame	-	-	-	-	-	-	-	9Kbytes	-	-	-	-	9Kbytes	9Kbytes	Jumbo Frame
Mac Address	2K	2K	2K	2K	8K	2K	2K	2K	2K	2K	2K	8K	8K	8K	Mac Address
Flash ROM	-	-	-	-	-	-	-	-	-	-	-	4Mbytes	4Mbytes	4Mbytes	Flash ROM
DRAM	-	-	-	-	-	-	-	-	-	-	-	32Mbytes	32Mbytes	32Mbytes	DRAM
Power Supply	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	24VDC (9-56VDC)	48VDC (45-56VDC)	48VDC (45-56VDC)	48VDC (45-56VDC)	48VDC (45-56VDC)	48VDC (45-56VDC)	Power Supply
Optional	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	12-36VAC*	-	-	-	-	-	Optional
Redundant Power	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Redundant Power
Power Consumption	2.93 Watts	4.71 Watts	4.44 Watts	6.41 Watts	9 Watts	3 Watts	7 Watts	2.74 Watts	5.3 Watts	3.3 Watts	5.4 Watts	6.6 Watts	13.5 W	15.76 Watts	Power Consumption
Overload Current Protection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Overload Current Protection
Polarity Reverse Protection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Polarity Reverse Protection
Relay Contact with Alarm System	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Relay Contact with Alarm System
DIDO (Digital Input/ Digital Output)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DIDO (Digital Input/ Digital Output)
Standard Operating Temperature	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Standard Operating Temperature
-20°C-60°C / -4°F-140°F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-20°C-60°C / -4°F-140°F
Wide Operating Temperature	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Wide Operating Temperature
-40°C-75°C / -40°F-167°F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40°C-75°C / -40°F-167°F
Storage Temperature	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Storage Temperature
-40°C-85°C / -40°F-185°F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40°C-85°C / -40°F-185°F
Operating Humidity	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Operating Humidity
5% to 95% (Non-condensing)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	5% to 95% (Non-condensing)
Case Dimension	30 x 95 x 140	30 x 95 x 140	30 x 95 x 140	30 x 95 x 140	72 x 105 x 152	26.1 x 95 x 144.3	26.1 x 95 x 144.3	30 x 95 x 140	30 x 95 x 140	30 x 95 x 140	30 x 95 x 140	30 x 95 x 140	72 x 105 x 152	440 x 280 x 44	Case Dimension
W x D x H (unit=mm)	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	W x D x H (unit=mm)
Case Protection	430g	480g	800g	810g	1300g	395g	395g	600g	600g	648g	824g	1418g	3700g	3700g	Case Protection
Weight	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Weight
DIN Rail Installation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	DIN Rail Installation
Wall Mount Installation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Wall Mount Installation
19-inch Rack Mount	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19-inch Rack Mount
CE/FCC/UL	●	●	●	●	●	CE/FCC	CE/FCC	●	●	●	●	●	●	●	CE/FCC/UL
RoHS/WEEE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	RoHS/WEEE
UL Class I Division II Certification	●	●	●	●	●	●	●	●	●	●	●	●	●	●	UL Class I Division II Certification
DNV Type Approved	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DNV Type Approved
EN50155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EN50155
IEC 61850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IEC 61850
Stability Testing (Free fall/ Shock/ Vibration)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Stability Testing (Free fall/ Shock/ Vibration)
MTBF	412,590 hours	388,566 hours	380,717 hours	347,014 hours	243,301 hours	390,800 hours	383,478 hours	405,486 hours	525,424 hours	391,515 hours	443,153 hours	259,356 hours	190,288 hours	133,495 hours	MTBF
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	Warranty

## SOFTWARE FEATURES

<b>Management</b>														<b>Management</b>	
SNMP v1 v2c v3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	SNMP v1 v2c v3
Web Browser	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Web Browser
Telnet	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Telnet
CLI	●	●	●	●	●	●	●	●	●	●	●	●	●	●	CLI
Lantech-View	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Lantech-View
Menu Driven	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Menu Driven
IGMP snooping v1 v2/ IGMP query	●	●	●	●	●	●	●	●	●	●	●	●	●	●	IGMP snooping v1 v2/ IGMP query
VLAN	●	●	●	●	●	●	●	●	●	●	●	●	●	●	VLAN
Port Trunk with LACP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Port Trunk with LACP
LLDP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	LLDP
Port Security	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Port Security
IP Security	●	●	●	●	●	●	●	●	●	●	●	●	●	●	IP Security
Login Security (RADIUS)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Login Security (RADIUS)
SNTP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	SNTP
SMTP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	SMTP
Bandwidth Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Bandwidth Control
Flow Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Flow Control
<b>Pro-Ring System</b>														<b>Pro-Ring System</b>	
X-Ring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	X-Ring
Dual Homing	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Dual Homing
Couple Ring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Couple Ring
Central Ring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Central Ring
Dual Ring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Dual Ring
Spanning Tree/ RSTP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Spanning Tree/ RSTP
Port Mirror	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Port Mirror
Quality of Service	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Quality of Service
Class of Service	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Class of Service
System Log	●	●	●	●	●	●	●	●	●	●	●	●	●	●	System Log
Relay Alarm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Relay Alarm
SNMP Trap	●	●	●	●	●	●	●	●	●	●	●	●	●	●	SNMP Trap
DHCP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	DHCP
DNS Client/ Server	●	●	●	●	●	●	●	●	●	●	●	●	●	●	DNS Client/ Server
TFTP Firmware Update/ Backup /Resotre	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TFTP Firmware Update/ Backup /Resotre
Configuration upload and download	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Configuration upload and download
iAlias	●	●	●	●	●	●	●	●	●	●	●	●	●	●	iAlias

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## HARDWARE FEATURES

Port	IES-2008A	IES-2206F-II	IES-2208C	IES-2208F	IES-2208GF	IES-2216C	IES-2307C	IGS-2206C	IGS-2404	Industrial IEC 61850 Switches	Industrial EN50155 Switches	IPES-2208F-67	Port	
10/100TX	8	6	8	8	8	16	7	-	-	24	8	8 (M12)	8 (M12)	8 (M12)
100FX	-	2 (SC)	-	2 (SC)	-	-	-	-	-	-	12 (SC)	-	2 (LC)	2 (LC)
1000FX	-	-	-	-	2 (SC)	-	-	-	-	-	-	-	-	-
10/100/1000T	-	-	-	-	-	-	-	6	4	-	-	-	-	-
100M SFP	-	-	-	-	-	-	-	-	4 (Dual Speed)	-	-	-	-	-
1000M SFP	-	-	-	-	-	-	-	-	-	2	2	-	-	-
10/100/1000T/Dual Speed SFP Combo	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RS232 connector	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	M12	M12	M12
PoE Injector	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Switching Fabric	5.6Gbps	1.6Gbps	5.6Gbps	1.6Gbps	5.6Gbps	7.2Gbps	7.4Gbps	16Gbps	1.6Gbps	8.8Gbps	8.0Gbps	5.6Gbps	5.6Gbps	5.6Gbps
Packet Buffer	1Mbits	1Mbits	1Mbits	1Mbits	1Mbits	1Mbits	1Mbits	1Mbits	1Mbits	4Mbits	4Mbits	1Mbits	1Mbits	1Mbits
Jumbo Frame	-	-	-	-	-	-	-	-	9K (for Gigabit)	9K (for Gigabit Ports)	9K (for Gigabit Ports)	-	-	-
Mac Address	8K	8K	8K	8K	8K	8K	8K	8K	8K	8K	1K	8K	8K	8K
Flash ROM	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes	4Mbytes
DRAM	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes	32Mbytes
Power Supply	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	24VDC (9-56VDC) 12-36VAC*	2 X VAC/VDC 100V-240V	2 X VAC/VDC 100V-240V	9-56VDC (M12 connector)	9-56VDC (M12 connector)	48VDC (45-56VDC) (M12 connector)
Redundant Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power Consumption	8.8 Watts	9 Watts	9.5 Watts	9 Watts	8.8 Watts	10 Watts	10.2 Watts	18 Watts	17 Watts	17.5 Watts@VDC 21.5 Watts@VAC	23 Watts@VDC 27 Watts@VAC	14 Watts	14 Watts	14 Watts
Overload Current Protection	-	●	●	●	●	●	●	●	●	●	●	●	●	●
Polarity Reverse Protection	-	●	●	●	●	●	●	●	●	●	●	●	●	●
Relay Contact with Alarm System	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DIDO (Digital Input/ Digital Output)	-	-	-	-	-	-	2/2	-	-	-	-	-	-	-
Standard Operating Temperature	●	●	●	●	●	●	●	●	●	-	-	●	●	●
-20°C-60°C / -4°F-140°F	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wide Operating Temperature	●	●	●	●	●	●	●	●	●	-40°C -85°C -40°F -185°F	-40°C -85°C -40°F -185°F	●	●	●
-40°C-75°C / -40°F-167°F	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Storage Temperature	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-40°C-85°C / -40°F-185°F	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operating Humidity	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5% to 95% (Non-condensing)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Case Dimension	72 x 105 x 152	52 x 106 x 144	72 x 105 x 152	72 x 105 x 152	72 x 105 x 152	72 x 105 x 152	72 x 105 x 152	72 x 105 x 152	72 x 105 x 152	440 x 280 x 44	440 x 280 x 44	193 x 62.5 x 176	193 x 62.5 x 176	193 x 62.5 x 176
W x D x H (unit=mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Case Protection	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP67	IP67	IP67
Weight	1302g	735g	1302g	735g	1302g	1049g	1300g	1418g	1230g	3000g	4900g	1630g	1630g	1730g
DIN Rail Installation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wall Mount Installation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
19-inch Rack Mount	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CE/FCC/UL	●	CE/FCC	●	●	●	●	●	●	●	●	●	●	●	●
RoHS/WEEE	●	●	●	●	●	●	●	●	●	●	●	●	●	●
UL Class I Division II Certification	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNV Type Approved	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EN50155	-	-	-	-	-	-	-	-	-	-	-	Pending	Pending	Pending
IEC 61850	-	-	-	-	-	-	-	-	-	Pending	Pending	-	-	-
Stability Testing (Free fall/ Shock/ Vibration)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MTBF	272,761 hours	232,194 hours	272,761 hours	232,194 hours	272,761 hours	220,111 hours	260,818 hours	248,507 hours	286,945 hours	109,064 hours	89,370 hrs	388,201 hours	320,420 hours	-
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years

## SOFTWARE FEATURES

Management	IES-2008A	IES-2206F-II	IES-2208C	IES-2208F	IES-2208GF	IES-2216C	IES-2307C	IGS-2206C	IGS-2404	Industrial IEC 61850 Switches	Industrial EN50155 Switches	IPES-2208F-67	Management
SNMP v1 v2c v3	●	●	●	●	●	●	●	●	●	●	●	●	●
Web Browser	●	●	●	●	●	●	●	●	●	●	●	●	●
Telnet	●	●	●	●	●	●	●	●	●	●	●	●	●
CLI	●	●	●	●	●	●	●	●	●	●	●	●	●
Lantech-View	●	●	●	●	●	●	●	●	●	●	●	●	●
Menu Driven	-	-	-	-	-	-	-	Optional	-	-	-	-	-
IGMP snooping v1 v2/IGMP query	●	●	●	●	●	●	●	●	●	●	●	●	●
VLAN	●	●	●	●	●	v1 v2 v3	●	●	●	●	●	●	●
Port Trunk with LACP	●	●	●	●	●	●	●	●	●	●	●	●	●
LLDP	●	●	●	●	●	●	●	●	●	●	●	●	●
Port Security	●	●	●	●	●	●	●	●	●	●	●	●	●
IP Security	●	●	●	●	●	●	●	●	●	●	●	●	●
Login Security (RADIUS)	●	●	●	●	●	●	●	●	●	●	●	●	●
SNTP	●	●	●	●	●	●	●	●	●	●	●	●	●
SMTP	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts	6 e-mail accounts
Bandwidth Control	●	●	●	●	●	●	●	●	●	●	●	●	●
Flow Control	●	●	●	●	●	●	●	●	●	●	●	●	●
Pro-Ring System	●	●	●	●	●	●	●	●	●	●	●	●	●
X-Ring	●	●	●	●	●	●	●	●	●	●	●	●	●
Dual Homing	●	●	●	●	●	●	●	●	●	●	●	●	●
Couple Ring	●	●	●	●	●	●	●	●	●	●	●	●	●
Central Ring	●	●	●	●	●	●	●	●	●	●	●	●	●
Dual Ring	●	●	●	●	●	●	●	●	●	●	●	●	●
Spanning Tree/ RSTP	●	STP/RSTP/MSTP	●	●	●	●	●	●	●	●	●	●	●
Port Mirror	●	●	●	●	●	●	●	●	●	●	●	●	●
Quality of Service	●	●	●	●	●	●	●	●	●	●	●	●	●
Class of Service	●	●	●	●	●	●	●	●	●	●	●	●	●
System Log	●	●	●	●	●	●	●	●	●	●	●	●	●
Relay Alarm	●	●	●	●	●	●	●	●	●	●	●	●	●
SNMP Trap	●	●	●	●	●	●	●	●	●	●	●	●	●
DHCP	●	●	●	●	●	●	●	●	●	●	●	●	●
DNS Client/ Server	●	●	●	●	●	●	●	●	●	●	●	●	●
TFTP Firmware Update/ Backup /Resotre	●	●	●	●	●	●	●	●	●	●	●	●	●
Configuration upload and download	●	●	●	●	●	●	●	●	●	●	●	●	●
iAlias	●	●	●	●	●	●	●	●	●	●	●	●	●

