



# RUGGED ENVIRONMENT SOLUTIONS

8 PORTS 10/100BASE-TX WITH 2 GIGABIT COMBO PORTS (SFP/RJ45) MANAGED SWITCH

ICE878G

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The **ICE878G** is a Gigabit SNMP managed, feature rich compact switch, designed for working under harsh environment. ICE878G is capable of working in environment of -40°C to 85°C, providing two Gigabit Combo ports (SFP/RJ45) combined with additional Eight 10/100BaseTX ports.



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The **ICE878G** SNMP managed compact switch supports web based management and advanced features such as RMON, IGMP snooping, 802.1Q VLAN tagging, 802.1D spanning tree, Port Security. The advanced management features together with the rugged environment capabilities make the **ICE878G** switch a powerful solution for out-door installation and for daisy chain and ring topology networks usually deployed for security surveillance and monitoring applications.

The **ICE878G** case has been approved and certified IP-30 standard.

## Key Features

- 8 ports auto-negotiate for speed and duality at 10/100Base-TX + 1 Console Port
- Two 100/1000Base-FX fiber ports SFP (SX, LX, ZX, WDM) or 10/100/1000TX
- Rugged, hardened IP30 case with Vibration/Shock resists.
- SNMP V2, V3, Web-Based, RMON, CLI via Console RS-232 (RJ-45) Management
- Provides 8K MAC address and 1M memory buffer
- Dual 12-48V DC power supplies (Terminal Blocks) with Under/Over power protection
- STP (802.1d), RSTP (802.1w) and proprietary Super Ring for less then 50ms recovery
- Vlan Tagging (802.1q), IGMP Snooping, Link Aggregation, QoS priority (802.1p)
- Relay Output for alarm notifications of Lost Link, power failure 1A@24VDC
- Port Mirroring, Rate limitation, Compact Form Factor, DIN Rail mounting

Rugged Switches



## Specifications

### Technical Specifications

LED	Per Unit.....Power Status, Redundant Status, Alarm status
	Per Port.....10/100, LK/ACT (2LEDs)
Cable	10Base-T .....2-pair UTP Cat. 3, 4, 5, Up to 100m (328ft)
	100Base-TX .....2-pair UTP Cat. 5, Up to 100m (328ft)
	1000Base-FX .....50/125 $\mu$ m Multi-Mode fiber optic cable, up to 500m
	.....10/125 $\mu$ m Single-Mode fiber optic cable, up to 80Km
Ethernet Standards	IEEE 802.3, IEEE 802.3u .....10Base-T, 100Base-TX
	IEEE 802.3ab, IEEE 802.3z .....1000Base-TX , 1000Base-FX(SX, LX, ZX)
Switching Methods	.....Store-and-Forward
Forwarding Rate	.....14,880pps for 10Mbps
	.....148,800pps for100Mbps, 1,488,000pps for1000Mbps

### Physical Specifications

Operating Temperature	.....XTR: -40°C ~ 85°C, ETR -10°C~70°C
Storage Temperature	.....-40°C~ 85°C
Humidity	.....5% ~ 95%, non-condensing
Dimensions	.....(W)72mm x (D) 105mm x (H)152mm Compact
Size Weight	.....780g
Approvals & Compliance	.....CE, FCC, IP-30 Rugged Case
Power	.....Redundant 12 - 48V DC / 1.5A Power Supply (Terminal Blocks)
Alarms Relay Output	.....alarm notification for port or power failure 1A @ 24VDC
Power Consumption	.....9.5W at 24V
Emission	.....FCC Part 15 of Class A & CE Approved

## Ordering information

Gigabit Compact Size Hardened Switch:

ICE878G	.Hardened Mang. switch with 8 10/100 TX ports and 2 Combo ports 100/1000FX (SFP/RJ45) ports
SFP1000SX	..... SFP Module, Gigabit Fiber – SX, Multi-mode, 500m
SFP1000LX	.....SFP Module, Gigabit Fiber, Single Mode, 10km
SFP1000LX10	.....SFP Module, Gigabit Fiber , Single Mode, 20km
SFP1000ZX	.....SFP Module, Gigabit Fiber, Single Mode, 60Km

\* **Note:** All Models are available as ETR: -10°C ~ +70°C or XTR: -40°C ~ +85°C

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