



8, 16 OR 24 X 10/100BASE-TX WITH UP TO 4 X GIGABIT COMBO PORTS, OR 100FX PORTS

ICE6024

The **ICE6024** - Next Generation SNMP managed switch series. It's the most flexible switch in the market today offering 10/100Base TX ports with combination of gigabit ports and 1000FX ports. It designed for working under harsh environment and complies with all new standards of SSH, SNMP V3, eRSTP (for <15ms ring recovery). ICE6024 is capable of working in environment of -10°C to +70°C.



The **ICE6024** next generation managed switch supports web, telnet, CLI, SNMP V1, 2c, 3, based management and advanced features such as IGMP V2, IGMP V3, 802.1Q VLAN tagging, 802.1D spanning tree, 802.1S Rapid Spanning Tree, 802.1w Multiple spanning Tree and eRSTP for low latency recovery time, 802.1x security and many more. The advanced management features together with the rugged environment capabilities make the **ICE6024** switch a powerful solution for out-door installation combined with daisy chain and ring topology networks usually deployed for security surveillance and monitoring applications.

Key Features

- 8, 16, 24 Port of 10/100Base-TX with Fiber ports to complete 24 Port switch.
- Up to 4 x Gigabit Combo ports (10/100/1000TX and 1000FX (SX,LX, ZX, WDM)).
- Up to 24 x 100FX ports MM or SM or SFP based.
- EN50121-4 Railway Applications Comply
- Rugged, hardened IP30 case with Vibration/Shock resists.
- Max switching capacity: 68G non-blocking at wire speed
- Supports management via WEB, Telnet and RS-232, SNMP V1/V2c/V3, RMON
- Security: Port Security, SSH, HTTPS, 802.1x, RADIUS, per port MAC locking



- Link Aggregation 802.3ad LACP (up to 8 ports), MAC-Based trunking with auto fail-over
- Spanning Tree: 802.3d, 802.3w (Rapid), 802.3s (Multiple), eRSTP (<15ms) with Ring Coupling
- VLAN: 802.1Q, Port Based, Private VLAN, GVRP
- QoS: 802.1p, WRR, Strict Priority, IP TOS/COS/DSCP, TCP/UDP Port Based, Diffserve, Ingress/Egress rate limiting, 8 priority queues per port
- IGMP Snooping V1/V2/V3, Port Mirroring
- Redundant power supply 240VAC

Specifications

Performance

Switch Fabric	.....68 Gbps
MAC Address	.....8K
Throughput	.....71.43 Mpps
Buffer Size	.....2 MB
Frame Size	.....Support Jumbo Frame up to 9KB

Management

Console	.....DB-9 RS-232
Management Features	.....CLI, Telnet, SSH, WEB, HTTPS, TFTP, XMODEM
Time Protocol	.....BOOTP, DHCP, Remote PING
Protocols	.....SNTP, NTP (RFC2030)
	.....SNMP V1/2c/3, RMON (4 Groups), MIB

Network Standards Compliance

.....IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3x
.....IEEE 802.1d, IEEE 802.1p, IEEE 802.1q
..... IEEE 802.3ad IEEE 802.1x, IEEE 802.1s, IEEE 802.1w

Physical Specification

Power Supply	.....Redundant 90~240VAC, 36~75VDC, 88~370VDC
Operating Temperature	.....-10°C ~70°C
Storage Temperature	..... -40°C ~80°C
Humidity	.....0%~95% non-condensing, Option for Conformal Coating
Dimension	.....Single Power Supply: W442mm x D250mm x H44mm
	.....Redundant Power Supply: W442mm x D360mm x H44mm
	.....Standard 19"rack-mount size, one-unit-height
Net Weight	.....6.2kg
Emission Compliance	.....EN50121-4, EN61000-6-4, FCC Part 15 Class A,
	..... CE & FCC & EN60950-1, EN055022
	.....EN61000-3-2, EN61000-3-3, EN61000-6-2
	.....EN61000-4-2, EN61000-4-3, EN61000-4-4
	.....EN61000-4-5, EN61000-4-6, EN61000-4-8
Shock and Vibrations	.....IEC60068-2-6, IEC60068-2-27, IEC60068-2-32



Ordering Information

Advanced Rugged Gigabit Ethernet Switch

ICE6024	24 x 10/100TX Managed Rugged Switch
ICE6016	16 x 10/100TX Managed Rugged Switch
ICE7008	8 x 10/100TX Managed Rugged Switch
ICE6424/XX	24 x 10/100TX + 4 x Combo Port 10/100/1000 / 1000FX Gigabit Managed Rugged Switch
ICE6416/XX	16 x 10/100TX + 4 x Combo Port 10/100/1000 / 1000FX Gigabit + 8 x 100Base-FX Managed Rugged Switch
ICE6408/XX	8 x 10/100TX + 4 x Combo Port 10/100/1000 / 1000FX Gigabit + 16 x 100Base-FX Managed Rugged Switch
ICE6024FX/XX	24 x 100Base-FX + 4 x Combo Port 10/100/1000 / 1000FX Gigabit Managed Rugged Switch
ICE6024SFP/XX	24 x 100Base-SFP + 4 x Combo Port 10/100/1000 / 1000FX Gigabit Managed Rugged Switch

Gigabit Options (XX)

SX	..... Combo Port 10/100/1000 + 1000SX Gigabit
LX	..... Combo Port 10/100/1000 + 1000LX Gigabit SFP1000LX (10Km)
LX20	..... Combo Port 10/100/1000 + 1000LX Gigabit SFP1000LX (20Km)
WDMA	. Combo Port 10/100/1000 + 1000LX Gigabit SFP1000WDM, Type A (10Km)
WDMA	. Combo Port 10/100/1000 + 1000LX Gigabit SFP1000WDM, Type B (10Km)

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Rugged Switches