

# AR-820 Gigabit Managed Industrial Ethernet Switch

## Main Features

- ◎ 8 x 10/100/1000BaseTX and 2 x 1000BaseX SFP
- ◎ RSTP/STP for network redundancy
- ◎ SNMPv1/v2c/v3 for different levels of network management
- ◎ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- ◎ IGMP snooping for filtering multicast traffic
- ◎ Easy network management through web browser, CLI, Telnet /serial console, SNMP
- ◎ Industrial-grade design with -40 to +75° C operating temperature and redundant power inputs
- ◎ Aluminum alloy chassis, IP40 protection, DIN-Rail mounting, wall mounting



## Overview

The AR-820 series managed Industrial Ethernet switches are equipped with up to 8 Ethernet ports. RSTP/STP can increase system reliability and your network availability. Industrial-grade design with -40 to +75°C operating temperature and redundant power inputs. The super hardware reliability is especially suitable for industrial applications.

## Features and Benefits

- Easy network management through web browser, Telnet /serial console, SNMP
- IGMP snooping for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- QoS and ToS/DiffServ to increase determinism
- Port Trunk for optimum bandwidth utilization
- RADIUS, TACACS+, SNMPv3, IEEE 802.1X, HTTPS and SSH
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status
- Lock port function for blocking unauthorized access based on MAC address

## Specifications

### Standards:

IEEE 802.3af for PoE

IEEE 802.3at for PoE Plus

IEEE 802.3 for 10BaseT

IEEE 802.3u for 100BaseT(X)

IEEE 802.3ab for 1000BaseT(X)

IEEE 802.3z for 1000BaseX

IEEE 802.1D-2004 for Spanning Tree Protocol

IEEE 802.1w for Rapid STP

IEEE 802.1Q for VLAN Tagging

IEEE 802.1p for Class of Service

IEEE 802.1X for Authentication

IEEE 802.3ad for Port Trunk with LACP

IEEE 802.3x for Flow Control

IEEE 802.3az for Energy Efficient Ethernet

**Protocols:**

IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Client,  
TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog,  
SSH, SNMP Inform, LLDP, SNTF Server/Client

**MIB:**

MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB,  
Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9

**Flow Control:**

IEEE 802.3x flow control, back pressure flow control

**Switch Properties:**

Priority Queues: 4

Max. Number of Available VLANs: 256

VLAN ID Range: VID 1 to 4094

IGMP Groups: 256

MAC Table Size: 8K

Packet Buffer Size: 1 Mbit

**Interface:**

**Ports:**

Fiber Ports: 1000Base-X (SFP slot)

RJ45 Ports: 10/100/1000BaseTX auto negotiation

**LED:**

System Led: SYS

Port Led: Copper: Link1~8, Act1~8

Fiber: Link/ Act X1,X2

Power Led: PWR

### Power Requirements

Input Voltage: 24VDC (9 to 36VDC), redundant dual inputs

Input Current: MAX. <0.5A@24VDC,<12W

Overload Current Protection: Present

Reverse Polarity Protection: Present

Connector: 6-contact terminal blocks

### Mechanical Properties

Housing: Metal, IP40 protection

Dimensions:63 x 115 x 163 mm

Weight: 900g

Installation: DIN-Rail mounting, wall mounting

### Environmental Limits

#### Operating Temperature:

Standard Models: 0 to +60°C (32 ~ 140°F )

Wide Temp. Models:-40 to +75°C (-40 to 167°F)

Storage Temperature: -40 to +85°C (-40 to 185°F )

Ambient Relative Humidity: 5 to 95% (non-condensing)

#### Standards and Certifications:

**EMI:** FCC Part 15, CISPR (EN55022) class A

**EMS:** EN61000-4-2 (ESD), Level 4

EN61000-4-3 (RS), Level 3

EN61000-4-4 (EFT), Level 4

EN61000-4-5 (Surge), Level 4 EN61000-4-6

(CS), Level 3

EN61000-4-8, Level 5 **Shock:**

IEC60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC60068-2-6

### Warranty Period

**Warranty Period:** 3 years