



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Ethernet Switches

Ethernet is an ideal medium to transport large volumes of data, at high speed, and across great distances. Early Ethernet networks were based on a hub or repeater. These units have no intelligence and therefore are unable to identify any information contained within the Header frame of an Ethernet packet. This means that they are not capable of determining which port to send the frame to. Therefore, every frame is sent to every port. A switch, like a hub, has to forward and receive packets from one network or device to another, except that the packet is only forwarded to the one network or device it is intended for.

There are many poorly designed switches that exist in the market today. These switches may be fragile, easy to collapse and suffer from transmission delays or unreliable communications due to packet collisions. Users who have had bad experiences or consumers who require a high quality switch should consider ICP DAS's switches.

Our switches are Industrial grade switches. They are designed to be highly reliable and temperature tolerant. We use high quality components that have very strict communication and environmental standards to meet. Some are designed especially robust for harsh or special application environments like underwater or high vibration applications like those on a train which are certified for EN50155.

Here is a comparison for some of our 8 port versions

Comparison Table of 8-port 10/100 Mbps Ethernet Switch

Mode Name	NS-208	NSM-108	NS-208A	NSM-208A	NS-208R
Input Voltage Range	+10 Vdc ~ +30 Vdc		+12 Vdc ~ +48 Vdc		
Casing	Plastic	Metal	Plastic	Metal	Plastic
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting		
Dimensions (W x L x H) (Unit: mm)	64 x 98 x 118	73 x 102 x 132	31 x 113 x 157	25 x 119 x 168	64 x 98 x 118
Remarks	-		Cost-effective		EN50155-certified

For harsh conditions where the environment is wet or the switch may come in contact or even be submerged in water, we offer IP 67 rated switches. These come with special water tight seals which provide the IP67 rating for both the Ethernet and power connections.



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Comparison Table of 5/8-port IP67 Ethernet Switch

Mode Name	NS-205-IP67	NS-205-IP67/DIN	NS-205PSE-IP67	NS-205PSE-IP67/DIN	NS-208PSE-IP67	NS-208-IP67
PoE	-		802.3af x 4		802.3af x 8	
Input Voltage Range	+10 Vdc ~ +30 Vdc (1 kV Isolated)		+46 Vdc ~ +53 Vdc			
Installation	Wall Mounting	DIN-Rail Mounting or Wall Mounting	Wall Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting or Wall Mounting	
Dimensions (W x L x H) (Unit: mm)	85 x 76 x 137	89 x 90 x 138	85 x 76 x 137	89 x 90 x 138	190 x 155 x 104	



If you have any questions concerning any Ethernet Switch application, or if you have special requirements, please contact us and we will be happy to assist you in choosing the correct switch or designing one to suit your application.