

iConverter® 4GT

4-Port 10/100/1000BASE-T Managed Ethernet Switch

The iConverter 4GT is a compact 4-Port Ethernet switch module and is a member of the managed iConverter product family. The plug-in module offers networking features including rate-limiting, traffic classification and prioritization, and VLAN capability.

The four RJ-45 ports support 10/100/1000Mbps bridging, Half/Full-Duplex and auto-negotiation. These features are configurable using DIP-switches or through software management. The 4GT supports RJ-45 auto-crossover (MDI/MDI-X) on all four ports, eliminating the need for a crossover cable.

The iConverter 4GT supports the IEEE 802.1Q tag Virtual Local Area Network (VLAN) packet tagging and untagging (including Q-in-Q) and the 802.1p Quality of Service priority standards.

4GT VLAN 802.1ad tunneling technology enables service providers to offer their customers E-Line and E-LAN services (via Ethernet Virtual Circuit or EVC), which connect multiple business LANs at different locations and make their networks appear to be on the same local network. Q-in-Q Service tags transparently transport customer network traffic across the service provider network, isolating it from other customer and service provider management traffic.

The 802.1p prioritization standard enables delivery of Quality of Service (QoS) to high-priority, real-time applications such as voice and video over Ethernet.

The 4GT supports traffic prioritization according to Class of Service (CoS) prioritization scheme. Incoming frames are assigned to one of four egress queues based on the VLAN tag P-bit value. This allows high priority traffic, such as voice traffic, to egress the network with no impact from lower priority traffic during congestion.

The iConverter 4GT switch is available as compact, unmanaged standalone unit, or chassis plug-in module that can be managed with a Management Module (NMM2) or Network Interface Device (NID) installed in the chassis. The management module provides access to the advanced features available on the module.

The 4GT standalone unit is available with an external AC to DC power adapter or with a 2-pin terminal connector for direct connection to DC power. The standalone module can be DIN-Rail mounted using the optional DIN-Rail mounting clips (8251-0).

The hot-swappable plug-in module can be mounted in a 19 or 5-Module iConverter chassis with redundant AC and DC power supplies. It can also be mounted in a 2-Module AC or DC powered chassis, or in a 1-Module chassis with AC or DC power input.



KEY FEATURES

- 4-Port 10/100/1000BASE-T standalone or plug-in Ethernet switch module
- RJ-45 port supports auto-crossover, with 10/100/1000 Half or Full-Duplex auto-negotiation or forced setting
- Quality of Service and traffic prioritization supported via Class of Service P-bit value
- Plug-in module features 100/1000Mbps Ethernet backplane ports for connectivity to adjacent modules
- Plug-in module is hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- Management of the plug-in module is available with the addition of a management module to the chassis
- SNMP management via NetOutlook® provides real-time port and module information, remote parameter configuration and trap notification
 - VLAN with 802.1ad Q-in-Q for Carrier and Enterprise Ethernet deployment
 - Bandwidth rate-limiting in 64kb increments
 - Port MIB statistics
 - Port Access Control for enhanced security
 - Remote management through SNMP v1/v2c/v3
- Commercial (0 to 50°C) and wide (-40 to 60°C) operating temperature ranges
- Made in the USA
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Description	iConverter 4GT 4-Port 10/100/1000BASE-T Copper Switch		
Standard Compliances	IEEE 802.1Q, 802.1p, 802.3, RFC 2819 (RMON)		
Regulatory Compliances	UL, CE, FCC Class A		
Environmental	RoHS, WEEE, REACH		
Frame Size	Up to 10,240 bytes		
Port Types	Copper:	10/100/1000BASE-T (RJ-45)	
Cable Types	Copper:	EIA/TIA 568A/B, Cat 5 UTP and higher	
Dimensions W x D x H	Plug-in:	0.85" x 4.5" x 2.8" (21.6 mm x 114.3 mm x 71.1 mm)	
	Standalone: (Wall-Mount)	3.8" x 4.8" x 1.0" (96.5 mm x 121.9 mm x 25.4 mm)	
Weight	Plug-in:	8 oz. (226.8 grams)	
	Standalone w/o Adapter:	1.0 lb. (453.6 grams)	
	Standalone w Adapter:	1.5 lbs. (680.4 grams)	

AC Power Requirements	AC Adapter: (US)	100 to 240VAC, 50/60Hz 0.1A @ 120VAC (typical)
	AC Adapter: (Universal)	100 to 240VAC, 50/60Hz 0.1A @ 120VAC (typical)
DC Power Requirements	DC Input: (Backplane)	3.3VDC, 1.1A @ 3.3VDC (typical)
	DC Input: (Terminal Block)	7-60VDC, 0.3A @ 9VDC (typical) 2-Pin Terminal (non-isolated)
	DC Input: (AC Adapter)	7-60VDC, 0.3A @ 9VDC (typical) 2.5mm Barrel Connector
Temperature	Commercial:	0 to 50°C
	Wide:	-40 to 60°C
	Storage:	-40 to 80°C
Humidity	5 to 95% (non-condensing)	
Altitude	-100m to 4,000m	
MTBF (hrs)	Plug-in:	450,000
	Standalone w/o Adapter:	600,000
	Standalone w/ US Adapter:	250,000
	Standalone w/ Uni Adapter:	100,000
Warranty	Lifetime warranty with 24/7/365 free Technical Support	

SWITCH CONFIGURATIONS

iConverter compact chassis support Ethernet backplane connectivity between plug-in modules. Modules can be combined to create configurations that provide multi-port Ethernet connectivity to end users and subscribers.

The example below illustrates a 4GT module and a GX/TM2 intelligent media converter installed in a 2-Module chassis. This configuration provides a Gigabit fiber uplink and five managed 10/100/1000BASE-T ports.



ORDERING INFORMATION

Model Number	Description
8482-4-pt	4-Port 10/100/1000BASE-T Copper Switch with Advanced Switching Features
Base Model Number: 8482-4-pt	
Select the model from ordering table above.	
Add power option (p) and operating temperature range (t) to the model type selected.	
Power Options (p):	
<leave blank> = Plug-in module	
D = Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord and integrated mounting brackets	F = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, and integrated mounting brackets
E = Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, and integrated mounting brackets	
Operating Temperature Options (t):	
<leave blank> = Commercial temperature (0 to 50°C)	W = Wide temperature (-40 to 60°C)
Contact Omnitron for other configurations, extended temperature (-40 to 75°C) and RoHS (5/6) compliant models.	
For chassis options, see iConverter Chassis and Mounting Options web page .	

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