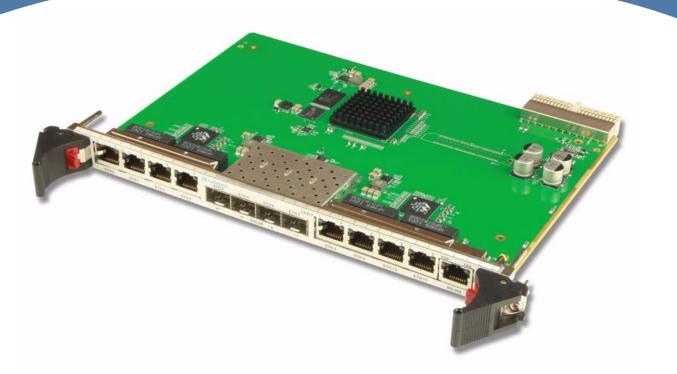
24 Port cPCI Managed Layer Two Switch







KEY FEATURES

- Compact PCI (cPCI) compliant
- Managed Layer two switch
- 24 ports in double slot
- Single slot
 - 8 ports of 10/100/1000 via RJ-45
 - 4 ports via SFP
- Support up to 8K MAC address
- 4K IEEE 802.1Q VLANs
- VLAN-based packet filtering
- Packet classification using IEEE802.1p QoS
- 9K Jumbo frames
- Spanning tree
- Mirroring
- QoS
- SNMP and RMON
- OS support for: — OS independent

The CP217 is a 6U single slot Compact PCI (cPCI) module that has 24 ports of GbE. Eight ports via RJ-45 and four ports via SFP as a single slot. The Module come with an optional daughter board which has an additional 12 ports of GbE via SFP which can provide Fiber or Copper interface.

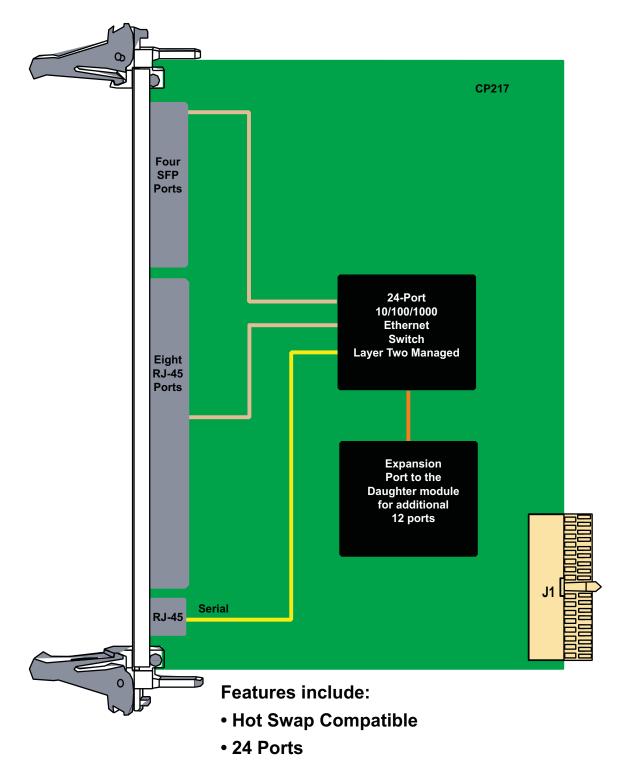
The switch is managed via http and supports a rich set of features such as VLAN, Spanning tree, QoS, Mirroring, etc.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

SPECIFICATIONS

Architecture			
	Dimensions	6U	
Physical		6.366 x 9.187 (PCB size)	
		Single slot on the base board and double slot with the daughter card	
Туре	cPCI Ethernet	GbE switch	
		24 ports	
		10/100/1000 per port	
Standards			
CompactPCI	Туре	cPCI	
Configuration			
Power	CP217	6W Base module without the SFP modules transceiver	
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)	
		Storage Temperature: -40° to +90° C	
	Vibration	1G, 5-500Hz each axis	
	Shock	30Gs each axis	
	Relative Humidity	5 to 95 percent, non-condensing	
Front Panel	Interface Connectors	RJ-45 on the base board and SFP on the daughter module	
	LEDs	Run/Fail	
		Link/Activity	
	Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Independent	
Other			
MTBF	MIL Handbook 217-F > TBD Hrs.		
Certifications	Designed to meet FCC, CE and UL certifications where applicable		
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards		
Compliance	RoHS and NEBS		
Warranty	Two (2) years.		
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their		
	respective owners. AdvancedMC TM and the AdvancedTCA TM logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.		

24 Port cPCI Managed Layer Two Switch





Managed Layer Two GbE

The GbE layer two managed switch fabric routes six GbE to front panel and two to the rear.

Key features:

- Configuration
 - Ethernet/IEEE 802.3 Packet size (64 bytes to 1522 bytes)
 - Jumbo packets up to 9216 bytes
- L2 Switching
 - Supports up to 8K MAC address
 - Line rate switching for all packet sizes
 - Independent VLAN learning
 - VLAN flooding for broadcast and DLF packets
 - Hardware-based address learning
 - Six CPU-managed learning (CML) modes per port
 - Hardware-and-software-based aging
 - Software insertion/deletion/lookups of the L2 table
 - Same port bridging supported
 - Station movement control
- L2 Multicast
 - ♦ 4K VLANs
 - Protocol-based VLANs
 - IEEE 802.1p
 - IEEE 802.1Q
 - Independent VLAN learning (IVL)
 - Ingress filtering for IEEE 802.1Q VLAN security
 - VLAN-based packet filtering
 - MAC-based VLAN
- Source Port Filtering
 - Egress port block masks
 - Trunk group blocking masks
- Storm Control Per-Port:
 - Unknown unicast packet rate control
 - Broadcast packet rate control
 - Multicast packet rate control
- Spanning Tree:
 - IEEE 802.1D spanning tree protocol (single spanning tree per port)
 - IEEE 802.1s for multi spanning trees
 - IEEE 802.1w rapid spanning tree protocol-delete and/or replace per:
 - Port
 - VLAN
 - Port, per VLAN
 - Spanning tree protocol packets detected and sent to the CPU
- Double-Tagging:
 - Unqualified learning/forwarding
 - IEEE 802.1 Q-in-Q
- Mirroring
 - Ingress/egress mirroring support

- Mirror-to-port receives the unmodified packet for ingress mirroring
- Mirror-to-port receives the modified packet for egress mirroring
- Content Aware Filter Processing
 - Intelligent Protocol Aware processor with backward-compatible, byte-based classification option
 - Parses up to 128 bytes per packet
 - -512 ACL rules support
 - Multiple matches and actions per packet
 - ACL-based policing
 - Ingress/egress port based filtering
 - MAC destination address remarking
 - Traffic class definition based on the filter
 - Programmable meters allows policing of flows
 - Metering granularity from 64 Kbps to 1Gbps
 - Multiple look-ups per packet
 - Metering support on ingress ports and CPU queues
- QoS Features
 - Four CoS queues per port
 - Per-port, per CoS drop profiles
 - Port level shaping
 - Traffic shaping available on CPU queues
 - Programmable priority to CoS queue mapping
 - Provides two levels of drop precedence per queue
 - Strict Priority (SP), Weighted Round Robin (WRR), and Deficit round Robin (DRR) mechanisms for shaped queue selection
- DSCP
 - DSCP-based prioritization
 - Back pressure metering
 - DSCP to IEEE 802.1p mapping
- Port Security
 - Per port blocking
 - Supports IEEE 802.1x
 - MAC address blocking
- DoS Prevention
 - Denial of Service detection/prevention
- Management Information Base
 - ✤ SMON MIB, IETF RFC 2613
 - RMON statistics group, IETF RFC 2819
 - SNMP interface group, IETF RFC 1213, 2836
 - Ethernet-like MIB, IETF RFC 1643
 - Ethernet MIB, IEEE 802.3u
 - Bridge MIB, IETF RFC 1493

ORDERING OPTIONS

AA = Number of Fiber SX TransceiversD = Daughter Module0 = None0 = NoneX = Number of Transceivers1 = Provides additional 12 ports of SFIBB = Number of Fiber LX Transceivers	
X = Number of Transceivers1 = Provides additional 12 ports of SFI	
BB = Number of Fiber LX Transceivers	P
	H = Operating Temp
0 = None X = Number of Transceivers	0 = Commercial 1 = Industrial
CC = Number of Copper Transceivers	J = Conformal Coating
0 = None X = Number of Transceivers	0 = None 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic
Total number of transceivers must not exceed 18.	





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