

C10P-PoE



Commander is an IP Communications Center that provides a fully managed 10 port network switch, environmental sensing, RS 232 and RS 485 bidirectional communication ports, interactive alarm in and auxiliary network controlled contacts, and data and video stream management.

- 8 port 802.3at Power over Ethernet (PoE) with full power available at each port with no power sharing.
- 10 port fully managed level 2 network switch with 2 Gigabit ports for Cascade and VLAN configurations
- Temperature, Airflow, Humidity and Power: Voltage and Frequency sensing for Hard Drive and other mission critical component protection.
- Multicasting for transmitting to various locations when decreasing network traffic.
- Operator programmable alerts for power loss conditions. Status view for monitoring conditions in real time.
- Interacts with auxiliary outputs, emails and internal logging. Interfaces with all Pilot video and network software management systems. Programmable interactive alarm in and auxiliary out contacts for universal interfacing with other system components
- Unique PortFlow™ for monitoring stream consistency to assure proper IP video quality
- On board alarm, polling and access log storage for monitoring trends
- User programmable Email alarms and log transfer for instant notification
- RS232 and RS485 bidirectional ports for data communications and network device control

The Commander Series are fully managed 10 port network switches designed to meet the growing requirements of data burdened security systems. With the ability to provide programmable 802.3at PoE power, the Commander C10 PoE series can meet the needs of security system power without the need for a local source. Using separate set ups and operations for IT Directors and Security Directors, the Commander Series eliminates potential conflicts. IT Directors maintain complete control over network interfaces and operations, while Security Directors can route IP signals in a familiar manner similar to setting up a video matrix switcher. For greater distance applications, Commander's Gigabit ports can be ordered with fiber links for transmission over long distances.

With two Gigabit Ethernet ports Security Directors are assured large data generators such as IP cameras can be

properly routed for viewing and recording. Commander's features move beyond standard network switches by providing hard contact alarm inputs and auxiliary outputs for real world alarm notifications and actions. All Commanders have internal and external environmental and power sensors for monitoring temperature, airflow, humidity and power of external devices. The number of sensors can be expanded using an external USB hub.

All Commander set ups, operations and monitoring are done using a built in web server without the need for external client software. Status and alarm logs are maintained on Commander and can be easily accessed with most computers using most standard web browsers. Commander can be operated to poll sensors monitoring external DVRs, NVRs and other server based devices providing

warnings and alarms set to specific environmental conditions. Alarm alerts and even complete log files can be automatically emailed or transferred to other computers using industry standard FTP (File Transfer Protocol). Commander's Web page can be easily minimized running in the background of any IP Camera, DVR, NVR or security server based system providing operator alerts without the need for extra cost of client software. Commander is compatible with any network security product displaying html web pages.

Front panel LEDs provide immediate status and alarm states for all network, alarm contact and environmental sensors.

Network enabled RS232 and RS485 communication ports compliant to RFC 2217 offering edge device communications and control.

MANAGEMENT SPECIFICATIONS			
MAC address notification	Admin notification of users added or removed from the network.	Port Trunking	Provided port has been assigned as to port trunking
MAC address aging (with Admin ability to set aging)	Up to 4K address entries per port as applied to self-learning capacity and table aging.	PortFlow™	Real time monitoring of all port functions for quickly determining problem areas and preventing unauthorized port connections and device changes.
Port Status		PROTOCOLS:	
Auto negotiate:	Half, Full, Auto for 10/100BASET ports		802.1p
Port Aging:	Applied to complete switch.		802.3
QoS			802.3u
Port priority settings	On: Using 802.1p tags Off: Ignoring 802.1p tags		802.3x
Port Snooping	Provided port has been programmed as part of port snooping		802.1d
Bandwidth	All Unicast Multicast Broadcast Programmed bandwidth limit		802.1w
Port Packet Priority	Off QoS priority Operator settings per port priority		802.1s
Port Monitoring	Ingress and Egress		802.1x
			802.3ab
			802.3ac
			RMON 1,2,3,9
			802.3Q
			802.3
			802.3af, 802.3at
		RFC2217 for external RS 485/RS232 communication port interface	
		RFC2236 for active mode membership query	

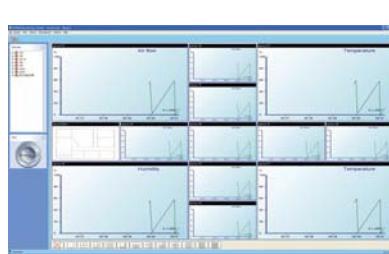


Temp Airflow Humidity Probe

OPTION	SPECIFICATIONS
P-TA: Temperature Airflow sensor probe	
P-TAH Temperature Airflow Humidity probe	
Dimensions	2.5" (D) x .875"(H) x 0.4"(W) 63.5mm (D) x 22.2mm x 10.2 (W)
Operating Temperate	-40°C to 85°C (-40°F to 185°F)
Operating Humidity	0% to 95% RH Non-Condensing
Weight (approx)	0.5 Ounces 14 grams
Range Temp:	0°C to 70°C (32°F to 158°F)
Airflow	Relative reading Detects 15% over full temperature range
Humidity (P-TAH only)	0% to 100% Relative Humidity
Connector	Mini-USB type B Spin Max 26' For longer distances, contact factory.
Data Transfer Rate	12M bit/sec (full speed USB)
Certifications:	FCC: CFR Title 47, Part 15 Class A CE: EN55022 Emissions / EN55024 Immunity UL/CE: IEC 61010
P-VFP specifications:	
Physical dimensions:	3.4" X 2.12" X 1.5"
Connectors:	5 pin MINI-B USB connector AC power
input:	IEC 320-1 3-pin
AC power output:	IEC 320-2 3-pin
Electrical specifications:	
AC voltage:	0-265VAC RMS
AC Frequency:	0-400Hz
Power:	0-2500 W
Temperature:	-40°C to +70°C
Humidity:	0 to 95% relative humidity



Power Probe



Pilot Software Graphical Display



Features

STATUS INDICATORS		PoE POWER
LEDs (per port)		PoE Rating: 802.3at PSE 30 Watts
10/100BASE-T	Link and Activity	Individual Class power rating at the PD:
1000BASE-X	Link and Activity	Class 0 0.44W to 12.95W
Power:	No power, normal power, power below acceptable level, temperature alarm	Class 1 0.44W to 2.84W
Auxiliary:	Off, On	Class 2 3.84W to 6.49W
Sensor:	Alarm - normally open or normally closed	Class 3 6.49W to 12.95W
CONNECTIONS		Class 4 12.95W to 25.5W
Ports:		PHYSICAL SPECIFICATIONS
10/100BASEe-T	(8) RJ45 Configurable Speed & Duplex	Dimensions: 1.75" (H) x 17.10" (W) x 1.7.0" (D)
1000BASE-X	(2) SFP Socket 1000BASE ONLY For use with afi approved devices conforming to Multiple Source Agreement (MSA) Small form Factor Pluggable (SFP) (SFP modules required for GigE operation)	Weight: 5 lbs
SFP Plug-ins:		ENVIRONMENTAL SPECIFICATIONS
SFP-SX:		Temperature:
Wavelength:	850nm	Operating -10°C to 60°C
Output Power:	-9.5 to -4 dBm	Storage -30°C to 85°C
Sensitivity:	<-17dBm	Humidity:
Distance:	550m (50/125 um) 220m (62.5/125 um)	Operating 0-95% Non-Condensing
SFP-LX		Storage 0-95% Non-Condensing
Distance:	10 km	Electromagnetic Compliance
Wavelength:	1310 nm FP	FCC: CFR Title 47, Part 15 Class A
Output Power:	-9.5 to -3 dBm	
Sensitivity:	< -21dBm	Safety
SFP-ZX		CE Mark Commercial: EN55022 Emissions/EN55024 Immunity
Distance:	70 km	OPTIONS
Wavelength:	1550 nm DFB	Probes
Output Power:	0 to +5 dBm	P-TA: Temperature Airflow Probe
Sensitivity:	-23 dBm	P-TAH: Temperature, Airflow, Humidity Probe
RS232:	DB9 Male DTE connector	P-VFP: Voltage/Frequency/Power
RS485:	RJ12 Female connector	
Sensor Probes:	USB A connector using proprietary afi communications protocol	Software
Alarms	5 Pin Detachable Terminal Block	Pilot CS: Client Multiple Unit Management
Alarm In:	Programmable for NO or NC	
Aux Out:	Form C 100V Max @ 0.5A	INCLUDED ACCESSORIES
		Resource CD
		Power Cord
		5 Pin Screw Terminal Block X 2
		Mounting Brackets & Hardware X 2



All specifications are subject to change without notice.

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