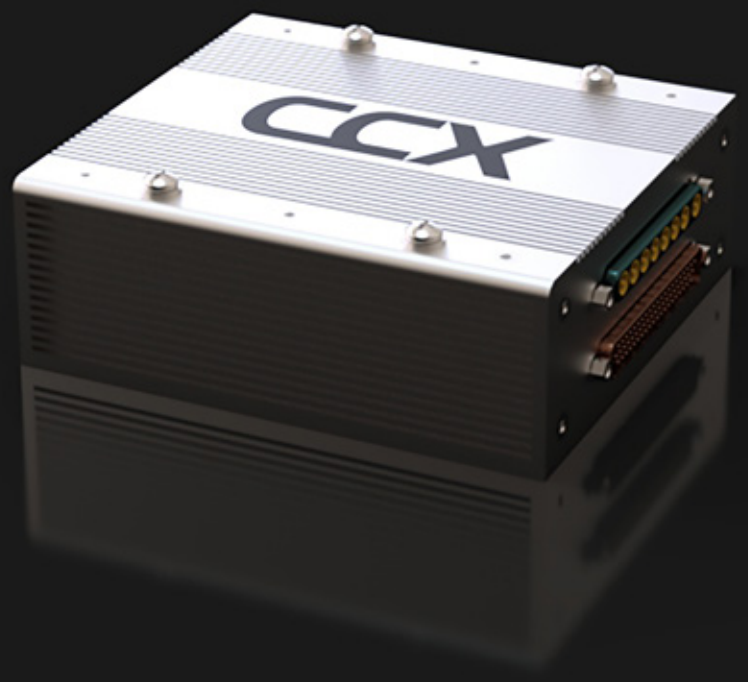
AP-150

Secure Avionics Wireless Gateway



AP-150 Key Features

Next-Generation Secure Wireless Gateway

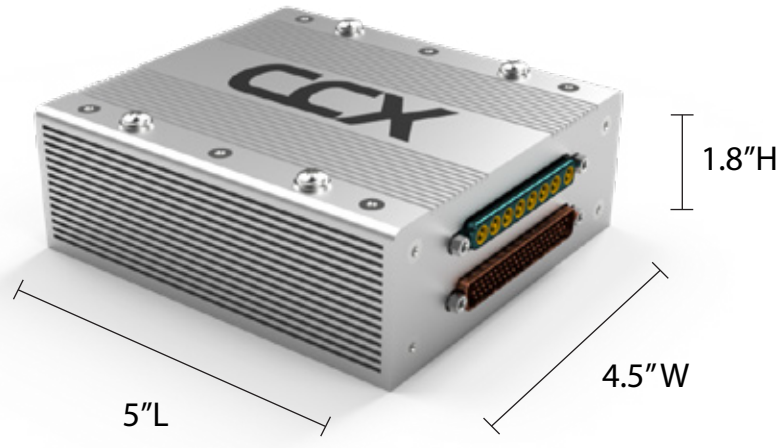
+ Wireless connectivity - Dual WiFi (access or client mode) & LTE
+ Four (4) Gigabit Ethernet ports, optional ten (10) ports
+ Lightweight and compact design
+ Simple interface to SATCOM Terminals
+ Optional customizable interfaces ie. A429, RS232, ISDN
+ SystemX proprietary custom built secure avionics routing software
+ Custom Network Intrusion Detection System

CCX TECHNOLOGIES

AP-150
Secure Avionics Wireless Gateway

Technical Information

Form Factor	5"L x 4.5"W x 1.8"H
Processor	Quad 64-bit Arm® Cortex®-A72 with packet processing acceleration and high-speed peripherals
RAM	8 GBy
Operating System	SystemX
Security	Advanced Network Intrusion Detection System Hardware accelerated end to end encryption including Secure Boot & signed software
Weight	< 3lbs (1.36kgs)
Ethernet Ports	Four (4) 10/100/1000 BASE-T IEEE 802.3 Compliant Ethernet Ports with Automatic Channel Swap (ACS), Up to additional six (6) on optional plugin card, or two (2) 10 Gb ports. Contact CCX Technologies for more details.
Ethernet Switch	L2/L3 Line-Rate managed ethernet switch & network processor
Aircraft Discretes	Two (2) configurable inputs, two (2) configurable outputs Two (2) dedicated WiFi disable, and one (1) LTE enable
Cellular Modem	LTE Advanced+ modem for global coverage, SIM access via front access panel
WiFi	Two (2) Dual Band 2.4/5GHz IEE802.11 a/b/g/n/ac WiFi radios
USB	Externally accessible USB 2.0
Serial	Optional RS232
Power	28VDC Input or 14VDC Input, see DO-160G Summary on page 3 50ms Hold-Up
Environment	See DO-160G Summary on page 3



AP-150
Secure Avionics Wireless Gateway

DO-160G Summary

Conditions	Section	Categories	Adjustments / Notes
Temperature and Altitude	4.0		
Low Temp Ground Survival	4.5.1	A4 and B4	-55°C
Low Temp Short-Term Operating	4.5.1	A4 and B4	-40°C
Low Temp Operating	4.5.2	A4 and B4	-25°C
High Temp Ground Survival	4.5.3	A4 and B4	+85°C
High Temp Short-Term Operating	4.5.3	A4 and B4	+70°C
High Temp Operationg	4.5.4	A4 and B4	+70°C
In-Flight Loss of Cooling	4.5.5	(N/A)	No cooling, thus not required.
Altitude	4.6.1	B4	25,000 ft
Decompression	4.6.2	A4	25,000 ft
Overpressure	4.6.2	A4	-15000 ft
Temperature Variation	5.0	B	
Humidity	6.0	A	
Operational Shock and Safety	7.0	B	
Vibration	8.0	S(C,L,M,Y) and U(FF1)	
Explosive Susceptibility	9.0	X	
Waterproofness	10.0	W	
Fluids Susceptibility	11.0	X	
Sand and Dust	12.0	X	
Fungus	13.0	X	
Salt Fog Test	14.0	X	
Magnetic Effect	15.0	A	
Power Input	16.6	B	Tests performed for 14V and 28V systems.
Ripple	16.7.7	X	
Inrush	16.7.5	I	
Voltage Spike	17.0	B	
Audio Frequency Susceptibility	18.0	Z	
Induced Signal Susceptibility	19.0	ZCE	
Radio Frequency Susceptibility	20.0	SS	
Radio Frequency Emission	21.0	M	
Lightning Induced Transient	22.0	B3F3K3	
Lighting Direct Effects	23.0	XXXX	
Icing	24.0	X	
Electrostatic Discharge	25.0	A	
Fire, Flammability	26.0	C	
Other Tests		X	

CCX TECHNOLOGIES

AP-150
Secure Avionics Wireless Gateway

Powered by

SYSTEMX

Protect your networks and connected devices with CCX Technologies' SystemX Cyber Defence and Security platform. Designed to operate in bandwidth- and latency-restrictive channels, like satellite and terrestrial radio links, SystemX is a flexible solution that can either be integrated directly on hardware, or in the cloud. The appliance-server architecture is built to improve the security posture of a variety of equipment on air, land and sea vehicles. Protecting critical networks and assets, the platform features a robust intrusion detection system (IDS), bespoke and easily customized rules-sets, logging and reporting, and automatic defense and mitigation capabilities.

Need more information?
Call us: +1 (613) 703 6161
Email us: info@ccxtechnologies.com
Visit us: ccxtechnologies.com

CCX TECHNOLOGIES