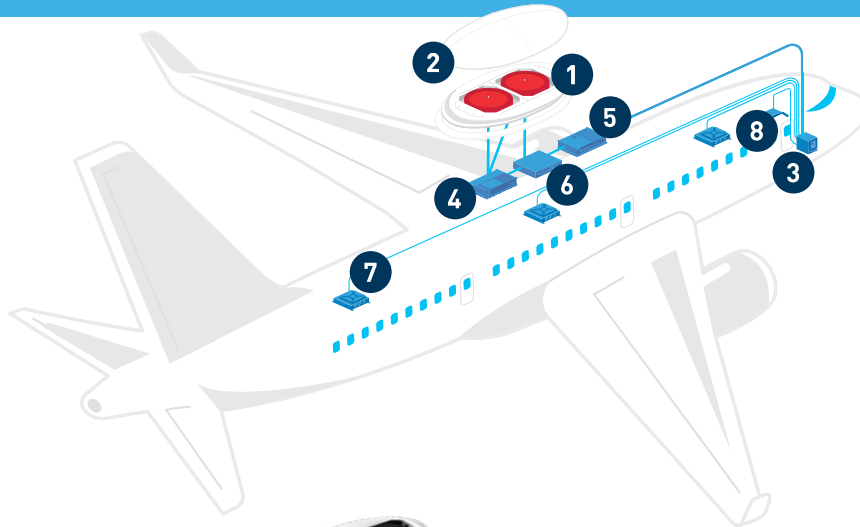


LINEFIT

2Ku Onboard System



Airbus Canada
A220-100/300

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	DIMENSIONS	POWER (CONSUMPTION MAXIMUM)	COOLING	INPUT POWER	TARGET MTBF** (IN FLIGHT HOURS)
 1 2KU ANTENNAS	35.7 x 35.7 x 4.2 in. (90.7 x 90.7 x 10.7 cm) RX – 83 lbs (37.6 Kg) TX – 81 lbs (36.7 Kg)	85 W	Passive	Powered by KANDU	RX – 32,000 TX – 40,000
 2 RADOME & ADAPTER PLATE	Radome: 100.2 x 48.2 x 5.11 in. (273.3 x 110.1 x 23.2 cm) 75 lbs (34.0 Kg) Adapter Plate*: 105.9 x 51.8 x 7.2 in. (293.4 x 111.7 x 14.2 cm) 112 lbs (51.0 Kg)	N/A	N/A	N/A	1,170,000
 3 ACPU-2	12.6 x 7.5 x 7.8 in (32.5 x 19.3 x 19.9 cm) 15.5 lbs (7.1 Kg)	145 W	34 CFM Forced air cooled	115 VAC 360-800 Hz	48,000
 4 MODMAN	15.4 x 11.3 x 2.5 in (39.0 x 28.6 x 6.4 cm) 8.0 lbs (3.6Kg)	38 W	28 CFM Stand alone cooled	Powered by KANDU	64,000
 5 KANDU	18.36 x 16.5 x 2.5 in (49.5 x 41.9 x 6.4 cm) 17.0 lbs (7.7 Kg)	350 W	35 CFM Stand alone cooled	115 VAC 360-800 Hz	28,000
 6 KRFU	17.7 x 14.0 x 2.9 in (44.9 x 35.6 x 7.4) 23.0 lbs (10.4 Kg)	700 W	50 CFM Stand alone cooled	115 VAC 360-800 Hz	32,000
 7 ACWAP***	ARINC628 Form Factor 9.5 x 9 x 2.5 in. (24.1 x 22.8 x 6.3 cm) 4.57 lbs. (2.07 Kg)	20 W	Passive	115 VAC 360-800 Hz	80,000
 8 SACL-PF	7.36 x 6.3 x 1.5 in (18.69 x 16.0 x 3.81 cm) 1.9 lbs (1.0 Kg)	AC 14.5 W DC 11 W	Passive	115 VAC 360-800 Hz, or 28 VDC	80,000

*Dimension and weight of adapter plate varies slightly by aircraft. **MTBF targets differ from actuals. ***A628 WAP is already certified for the A220-300. P33208 (A628 WAP) for the A220-100 will be available when the next A220-100 kits are shipped pending certification.

Specifications



ACPU-2

MODEL NO.	CONNECTIONS	LOCATION	CASE	PROCESSOR	MEMORY
P19667-003 (w/ TM3)	ARINC 600	Rack	2024 5052 AI	2 Quad-Core mobile Core-I7 processors, 4x 2.1/3.1 GHz (1 Quad-Core mobile Core-I7 processor per blade)	32 GB total RAM w/12 MB L2 (16 GB DDR3-1600 w/6 MB L2 per blade)
Ethernet		Flash		Solid State Storage	
5 GBE and 7 FE		CFast (SATA CF) Accessible via Front Maintenance Panel		Standard Capacity: 2.88 TB (2x 960 GB, 2x 480 GB) 1.4 TB available for Wireless Inflight Entertainment media storage High Capacity: 7.7 TB (2x 3.84TB, 2x 480 GB) 7.16 TB available for Wireless Inflight Entertainment media storage	
				USB	
				Arinc 429	
				AC Discretes	
				2 x USB 2.0 (Accessible via Front Maintenance Panel)	
				4 Rx / 2 Tx	
				4 input/20 output ARINC 628 compatible discretes	
Terrestrial Modem			WI-FI		LED Indicators
LTE w/USIM			802.11a/b/g/n/ac Dual Band (2.4/5GHz) Wi-Fi Client based on Intel 7260		Power, 2 Status Indicators, 2 Link Indicators 6-character numeric E-ink (persistent) display



ARINC 628 ACWAP ACCESS POINTS

MODEL NO.	CONNECTIONS	LOCATION	STANDARD	ACCESS METHOD	RF MODULATION
P33208-002	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE802.11b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode
Configurable based on country regulations		802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16
Ethernet		Connections		Management	Security MAC filtering
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections		Local with Virtual Controller	MAC filtering, VPN pass-through



PCS ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector	Impedance		VSWR
3 dBi		TNC	50 ohms		<2.0
				Power Consumption	
				100 W max	



CONTENT LOADER

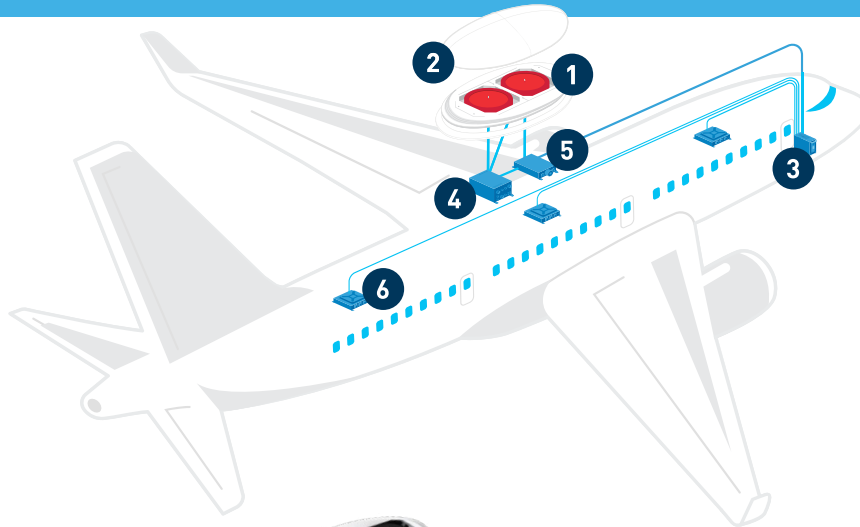
MODEL NO.	CONNECTORS	LOCATION	POWER CONSUMPTION	POWER REQUIREMENT	COOLING REQUIREMENT
P31672-001	Rectangular Pin (1), USB (2), RJ45 (1), Molex (1)	Cabin	AC 14.5 W DC 11 W	115 VAC 360-800 Hz 28VDC 17VDC to 33VDC	Passive

DO-160 Qualifications

SECTION	DESCRIPTION	ACPU-2	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P19667	P12951	P17663	P33208
DO-160 REVISION LEVEL TESTED		REV-F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A4	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -40°C	GSLT -30°C	GSLT -55°C	
		STOLT -40°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +70°C	GSHT +70°C	GSHT +85°C	
		STOHT +55°C	STOHT +40°C	STOHT +70°C	
		OHT +55°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	C	X	A	C
6	Humidity	A	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves B, M	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	X	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	X	X	X	N/A
13	Fungus Resistance	X	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	A	X	X	A
16	Power Input	A(WF)X	X	X	A(WF)X
17	Voltage Spike	A	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	R(WF)	X	X	R(WF)
19	Induced Signal Susceptibility	AW	X	X	ZW
20	Radio Frequency Susceptibility	T	X	X	T
21	Emission of Radio Frequency Energy	M	X	X	M
22	Lightning Induced Transient Susceptibility	B2XXX supply pins			B2XXX
		XXC1X unshd cable	X	X	XXC1X
		XXE1X shd cable			XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	A	X	X	A
26	Fire & Flammability	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

LINEFIT

2Ku Onboard System



Airbus Canada
A319/A319neo

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	DIMENSIONS	POWER (CONSUMPTION MAXIMUM)	COOLING	INPUT POWER	TARGET MTBF** (IN FLIGHT HOURS)
 1 2KU ANTENNAS	35.7 x 35.7 x 4.2 in. (90.7 x 90.7 x 10.7 cm) RX – 82 lbs (37.2 Kg) TX – 80 lbs (36.3 Kg)	85 W	Passive	Powered by KANDU	RX – 32,000 TX – 40,000
 2 RADOME & ADAPTER PLATE	Radome: 107.6 x 43.3 x 9.1 in. (273.3 x 110.1 x 23.2 cm) 75 lbs (47.6 Kg) Adapter Plate*: 115.5 x 44 x 5.6 in. (293.4 x 111.7 x 14.2 cm) 129.1 lbs (58.7 Kg)	N/A	N/A	N/A	1,170,000
 3 MODMAN	12.6 x 7.5 x 7.8 in. (32.5 x 19.3 x 19.9 cm) 15.5 lbs (7.1 Kg)	95 W	10 CFM	115 VAC 360-800 Hz	25,000
 4 KANDU	18 x 9.06 x 5.5 in. (45.72 x 23.01 x 13.97 cm) 15.7 lbs (7.12 Kg)	250 W	Passive	115 VAC 360-800 Hz	30,000
 5 KRFU	17.96 x 9.06 x 2.95 in. (45.61 x 23.01 x 7.49) 22.3 lbs (10.1 Kg)	500 W	70 CFM	115 VAC 360-800 Hz	20,000
 6 ACWAP	ARINC628 Form Factor 9 x 9 x 2.5 in. (22.86 x 22.86 x 6.35 cm) 4.57 lbs. (2.07 Kg)	20 W	Passive	115 VAC 360-800 Hz	80,000

*Dimension and weight of adapter plate varies slightly by aircraft. **MTBF targets differ from

Specifications



ARINC 791
MODMAN

MODEL NO.	CONNECTIONS	LOCATION	CASE	PROCESSOR	MEMORY	
P35795-001	ARINC 600	Rack	2024 5052 AI	Intel Skylake COMe-bSL6R, E2S E3-1505L (4x2.0 GHz, 25W TDP)	32GB DDR4 RAM (ECC)	
Ethernet		Flash	Solid State Storage	USB	Arinc 429	AC Discretes
5 GBE and 7 FE	CFast (SATA CF) Accessible via Front Maintenance Panel6	1x Fixed Internal Storage (960GB) for data storage; 1x Fixed mSATA (OS); 128GB (intended as primary boot device)	USB 2.0/Serial (MUX: Switch, Processor, Modem), RJ45 (Ethernet), USB 3.0, and VGA (HD15)	ARINC 429: 4 Rx, 717 (1) Rx (optional, part number specific)	14 outputs and 12 inputs	
Terrestrial Modem		WI-FI		LED Indicators		
1x 4G/LTE modems; 2x external antenna connection (1 modem populated); Front accessible uSIM (2x) per modem		802.11 a/b/g/n/ac		4x LEDs (PWR, Switch, Tx Lock, Rx1 Lock)		



ARINC 628
ACWAP
ACCESS
POINTS

MODEL NO.	CONNECTIONS	LOCATION	STANDARD	ACCESS METHOD	RF MODULATION	
P33208-002	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE802.1b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS	
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode	Auto Channel Selection
Configurable based on country regulations	802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation	Yes	
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID	Operating mode
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16	AP, with Virtual Controller
Ethernet		Connections	Management	Security MAC filtering		
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections	Local with Virtual Controller	MAC filtering, VPN pass-through		



WIFI
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	ANTENNA TYPE	GAIN
P12951	RF	Cabin	2.4 - 2.5 and 5.1 to 5.9 GHz	Omni-directional	3 dBi
Connector		Impedance	HPBW/Horizontal	HPBW/Vertical	VSWR
TNC		50+-5 ohms	360 degrees	8/10 degrees	1:1.5 max.



PCS
ANTENNA

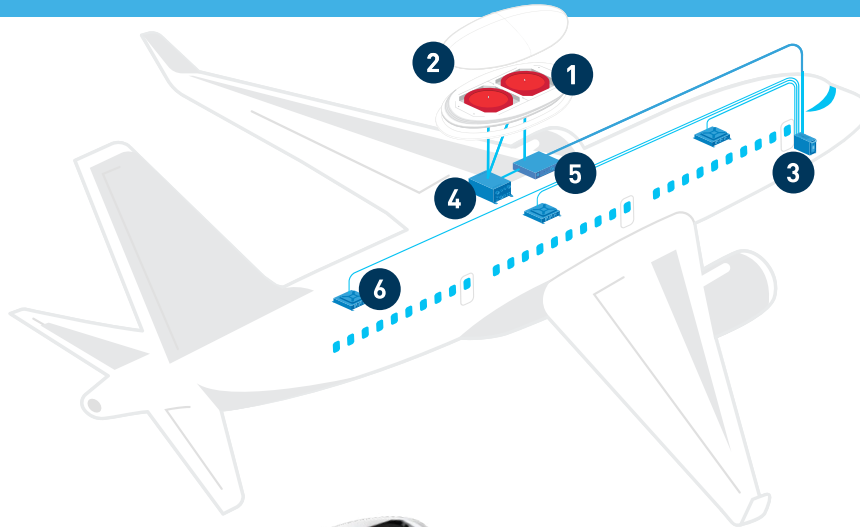
MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector	Impedance	VSWR	Power Consumption
3 dBi		TNC	50 ohms	<2.0	100 W max

DO-160 Qualifications

SECTION	DESCRIPTION	A791 MODMAN	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P35795	P12951	P17663	P33208
DO-160 REVISION LEVEL TESTED		DO160F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A2	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -30°C	GSLT -30°C	GSLT -55°C	
		STOLT -55°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +85°C	GSHT +70°C	GSHT +85°C	
		STOHT +70°C	STOHT +40°C	STOHT +70°C	
		OHT +70°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	B	X	A	C
6	Humidity	A2	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves C & B3	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	Y	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	D	X	X	N/A
13	Fungus Resistance	F	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	X	X	X	A
16	Power Input	X	X	X	A(WF)X
17	Voltage Spike	X	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	X	X	X	R(WF)
19	Induced Signal Susceptibility	X	X	X	ZW
20	Radio Frequency Susceptibility	X	X	X	T
21	Emission of Radio Frequency Energy	X	X	X	M
22	Lightning Induced Transient Susceptibility				B2XXX
		X	X	X	XXC1X
					XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	X	X	X	A
26	Fire & Flammability	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

LINEFIT

2Ku Onboard System



Airbus Canada
A320/A320neo

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 3 MODMAN	12.6 x 7.5 x 7.8 in. (32.5 x 19.3 x 19.9 cm) 15.5 lbs (7.1 Kg)	95 W	10 CFM	115 VAC 360-800 Hz	25,000
 4 KANDU	18 x 9.06 x 5.5 in. (45.72 x 23.01 x 13.97 cm) 15.7 lbs (7.12 Kg)	250 W	Passive	115 VAC 360-800 Hz	30,000
 5 KRFU	17.96 x 9.06 x 2.95 in. (45.61 x 23.01 x 7.49) 22.3 lbs (10.1 Kg)	500 W	70 CFM	115 VAC 360-800 Hz	20,000
 6 ACWAP	ARINC628 Form Factor 9 x 9 x 2.5 in. (22.86 x 22.86 x 6.35 cm) 4.57 lbs. (2.07 Kg)	20 W	Passive	115 VAC 360-800 Hz	80,000

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Specifications



ARINC 791
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5 GBE and 7 FE	CFast (SATA CF) Accessible via Front Maintenance Panel6	1x Fixed Internal Storage (960GB) for data storage; 1x Fixed mSATA (OS); 128GB (intended as primary boot device)	USB 2.0/Serial (MUX: Switch, Processor, Modem), RJ45 (Ethernet), USB 3.0, and VGA (HD15)	ARINC 429: 4 Rx, 717 (1) Rx (optional, part number specific)	14 outputs and 12 inputs	
Terrestrial Modem		WI-FI		LED Indicators		
1x 4G/LTE modems; 2x external antenna connection (1 modem populated); Front accessible uSIM (2x) per modem		802.11 a/b/g/n/ac		4x LEDs (PWR, Switch, Tx Lock, Rx1 Lock)		



ARINC 628
ACWAP
ACCESS
POINTS

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P33208-002	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE802.1b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS	
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode	Auto Channel Selection
Configurable based on country regulations	802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation	Yes	
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID	Operating mode
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16	AP, with Virtual Controller
Ethernet		Connections	Management	Security MAC filtering		
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections	Local with Virtual Controller	MAC filtering, VPN pass-through		



WIFI
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	ANTENNA TYPE	GAIN
P12951	RF	Cabin	2.4 - 2.5 and 5.1 to 5.9 GHz	Omni-directional	3 dBi
Connector		Impedance	HPBW/Horizontal	HPBW/Vertical	VSWR
TNC		50+-5 ohms	360 degrees	8/10 degrees	1:1.5 max.



PCS
ANTENNA

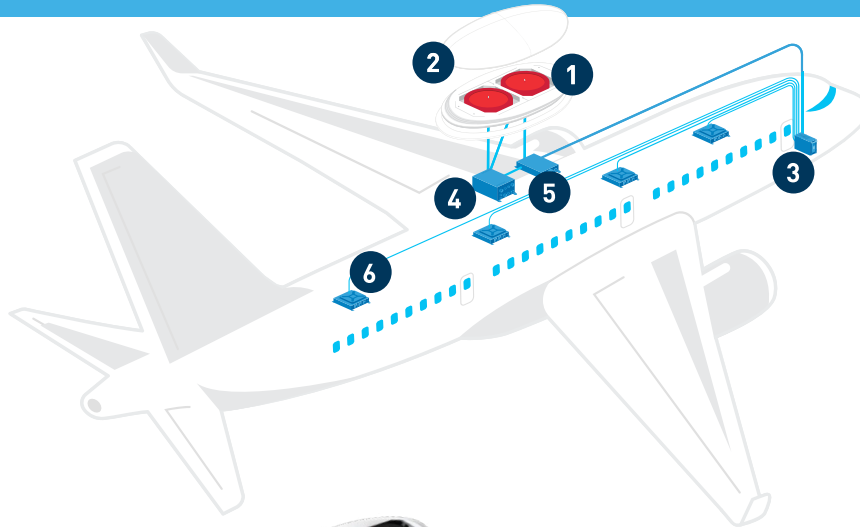
MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector	Impedance	VSWR	Power Consumption
3 dBi		TNC	50 ohms	<2.0	100 W max

DO-160 Qualifications

SECTION	DESCRIPTION	A791 MODMAN	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P35795	P12951	P17663	P33208
DO-160 REVISION LEVEL TESTED		DO160F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A2	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -30°C	GSLT -30°C	GSLT -55°C	
		STOLT -55°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +85°C	GSHT +70°C	GSHT +85°C	
		STOHT +70°C	STOHT +40°C	STOHT +70°C	
		OHT +70°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	B	X	A	C
6	Humidity	A2	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves C & B3	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	Y	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	D	X	X	N/A
13	Fungus Resistance	F	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	X	X	X	A
16	Power Input	X	X	X	A(WF)X
17	Voltage Spike	X	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	X	X	X	R(WF)
19	Induced Signal Susceptibility	X	X	X	ZW
20	Radio Frequency Susceptibility	X	X	X	T
21	Emission of Radio Frequency Energy	X	X	X	M
22	Lightning Induced Transient Susceptibility				B2XXX
		X	X	X	XXC1X
					XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	X	X	X	A
26	Fire & Flammability	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

LINEFIT

2Ku Onboard System



Airbus Canada
A321/A321neo

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	DIMENSIONS	POWER (CONSUMPTION MAXIMUM)	COOLING	INPUT POWER	TARGET MTBF** (IN FLIGHT HOURS)
 1 2KU ANTENNAS	35.7 x 35.7 x 4.2 in. (90.7 x 90.7 x 10.7 cm) RX – 82 lbs (37.2 Kg) TX – 80 lbs (36.3 Kg)	85 W	Passive	Powered by KANDU	RX – 32,000 TX – 40,000
 2 RADOME & ADAPTER PLATE	Radome: 107.6 x 43.3 x 9.1 in. (273.3 x 110.1 x 23.2 cm) 75 lbs (47.6 Kg) Adapter Plate*: 115.5 x 44 x 5.6 in. (293.4 x 111.7 x 14.2 cm) 129.1 lbs (58.7 Kg)	N/A	N/A	N/A	1,170,000
 3 MODMAN	12.6 x 7.5 x 7.8 in. (32.5 x 19.3 x 19.9 cm) 15.5 lbs (7.1 Kg)	95 W	10 CFM	115 VAC 360-800 Hz	25,000
 4 KANDU	18 x 9.06 x 5.5 in. (45.72 x 23.01 x 13.97 cm) 15.7 lbs (7.12 Kg)	250 W	Passive	115 VAC 360-800 Hz	30,000
 5 KRFU	17.96 x 9.06 x 2.95 in. (45.61 x 23.01 x 7.49) 22.3 lbs (10.1 Kg)	500 W	70 CFM	115 VAC 360-800 Hz	20,000
 6 ACWAP	ARINC628 Form Factor 9 x 9 x 2.5 in. (22.86 x 22.86 x 6.35 cm) 4.57 lbs. (2.07 Kg)	20 W	Passive	115 VAC 360-800 Hz	80,000

*Dimension and weight of adapter plate varies slightly by aircraft. **MTBF targets differ from actuals

Specifications



ARINC 791
MODMAN

MODEL NO.	CONNECTIONS	LOCATION	CASE	PROCESSOR	MEMORY	
P35795-001	ARINC 600	Rack	2024 5052 AI	Intel Skylake COMe-bSL6R, E2S E3-1505L (4x2.0 GHz, 25W TDP)	32GB DDR4 RAM (ECC)	
Ethernet		Flash	Solid State Storage	USB	Arinc 429	AC Discretes
5 GBE and 7 FE	CFast (SATA CF) Accessible via Front Maintenance Panel6	1x Fixed Internal Storage (960GB) for data storage; 1x Fixed mSATA (OS); 128GB (intended as primary boot device)	USB 2.0/Serial (MUX: Switch, Processor, Modem), RJ45 (Ethernet), USB 3.0, and VGA (HD15)	ARINC 429: 4 Rx, 717 (1) Rx (optional, part number specific)	14 outputs and 12 inputs	
Terrestrial Modem		WI-FI		LED Indicators		
1x 4G/LTE modems; 2x external antenna connection (1 modem populated); Front accessible uSIM (2x) per modem		802.11 a/b/g/n/ac		4x LEDs (PWR, Switch, Tx Lock, Rx1 Lock)		



ARINC 628
ACWAP
ACCESS
POINTS

MODEL NO.	CONNECTIONS	LOCATION	STANDARD	ACCESS METHOD	RF MODULATION	
P33208-002	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE802.1b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS	
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode	Auto Channel Selection
Configurable based on country regulations	802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation	Yes	
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID	Operating mode
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16	AP, with Virtual Controller
Ethernet		Connections	Management	Security MAC filtering		
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections	Local with Virtual Controller	MAC filtering, VPN pass-through		



WIFI
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	ANTENNA TYPE	GAIN
P12951	RF	Cabin	2.4 - 2.5 and 5.1 to 5.9 GHz	Omni-directional	3 dBi
Connector		Impedance	HPBW/Horizontal	HPBW/Vertical	VSWR
TNC		50+-5 ohms	360 degrees	8/10 degrees	1:1.5 max.



PCS
ANTENNA

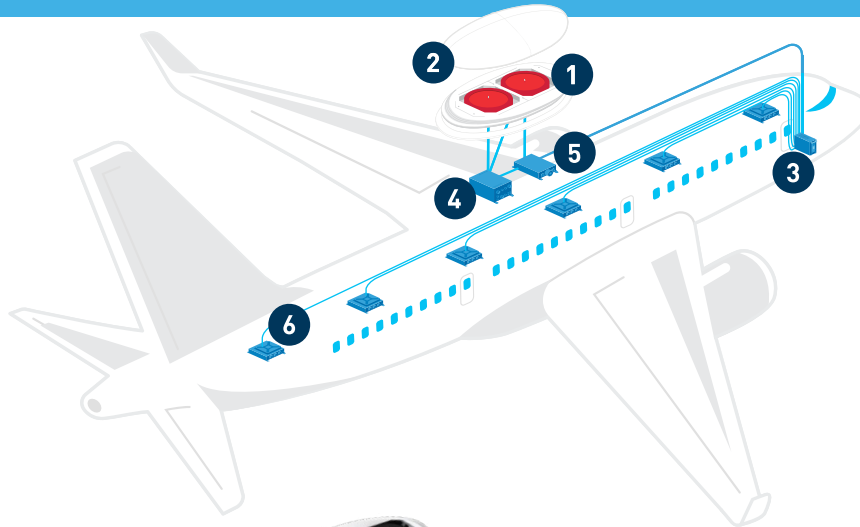
MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector	Impedance	VSWR	Power Consumption
3 dBi		TNC	50 ohms	<2.0	100 W max

DO-160 Qualifications

SECTION	DESCRIPTION	A791 MODMAN	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P35795	P12951	P17663	P33208
DO-160 REVISION LEVEL TESTED		DO160F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A2	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -30°C	GSLT -30°C	GSLT -55°C	
		STOLT -55°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +85°C	GSHT +70°C	GSHT +85°C	
		STOHT +70°C	STOHT +40°C	STOHT +70°C	
		OHT +70°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	B	X	A	C
6	Humidity	A2	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves C & B3	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	Y	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	D	X	X	N/A
13	Fungus Resistance	F	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	X	X	X	A
16	Power Input	X	X	X	A(WF)X
17	Voltage Spike	X	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	X	X	X	R(WF)
19	Induced Signal Susceptibility	X	X	X	ZW
20	Radio Frequency Susceptibility	X	X	X	T
21	Emission of Radio Frequency Energy	X	X	X	M
22	Lightning Induced Transient Susceptibility				B2XXX
		X	X	X	XXC1X
					XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	X	X	X	A
26	Fire & Flammability	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

LINEFIT

2Ku Onboard System



Airbus Canada
A330/A330neo

The innovative Intelsat 2Ku global satellite access technology delivers significantly more bandwidth to the aircraft, minimizes service disruptions associated with beam switching, drives faster satellite handoffs, and has quadruple the surface area compared to traditional gimballed antennas.

The result is dramatically better performance in most operational scenarios.

Intelsat 2Ku global satellite access technology consists of the MODMAN (Modem Manager), KRFU (Ku-band Radio Frequency Unit), and KANDU (Ku-band Aircraft Networking Data Unit). These three components work in tandem with the external 2Ku Antenna Subsystem to deliver inflight internet to enabled devices, anywhere you fly.

Intelsat offers flexible installation options across the Airbus portfolio with linefit, service bulletin, and retrofit solutions to meet the demands of your business.

	DIMENSIONS	POWER (CONSUMPTION MAXIMUM)	COOLING	INPUT POWER	TARGET MTBF** (IN FLIGHT HOURS)
 1 2KU ANTENNAS	35.7 x 35.7 x 4.2 in. (90.7 x 90.7 x 10.7 cm) RX – 82 lbs (37.2 Kg) TX – 80 lbs (36.3 Kg)	85 W	Passive	Powered by KANDU	RX – 32,000 TX – 40,000
 2 RADOME & ADAPTER PLATE	Radome: 107.6 x 43.3 x 9.1 in. (273.3 x 110.1 x 23.2 cm) 75 lbs (47.6 Kg) Adapter Plate*: 115.5 x 44 x 5.6 in. (293.4 x 111.7 x 14.2 cm) 129.1 lbs (58.7 Kg)	N/A	N/A	N/A	1,170,000
 3 MODMAN	12.6 x 7.5 x 7.8 in. (32.5 x 19.3 x 19.9 cm) 15.5 lbs (7.1 Kg)	95 W	10 CFM	115 VAC 360-800 Hz	25,000
 4 KANDU	18 x 9.06 x 5.5 in. (45.72 x 23.01 x 13.97 cm) 15.7 lbs (7.12 Kg)	250 W	Passive	115 VAC 360-800 Hz	30,000
 5 KRFU	17.96 x 9.06 x 2.95 in. (45.61 x 23.01 x 7.49) 22.3 lbs (10.1 Kg)	500 W	70 CFM	115 VAC 360-800 Hz	20,000
 6 ACWAP	ARINC628 Form Factor 9 x 9 x 2.5 in. (22.86 x 22.86 x 6.35 cm) 4.57 lbs. (2.07 Kg)	20 W	Passive	115 VAC 360-800 Hz	80,000

*Dimension and weight of adapter plate varies slightly by aircraft. **MTBF targets differ from actuals

Specifications



ARINC 791
MODMAN

MODEL NO.	CONNECTIONS	LOCATION	CASE	PROCESSOR	MEMORY	
P35795-001	ARINC 600	Rack	2024 5052 AI	Intel Skylake COMe-bSL6R, E2S E3-1505L (4x2.0 GHz, 25W TDP)	32GB DDR4 RAM (ECC)	
Ethernet		Flash	Solid State Storage	USB	Arinc 429	AC Discretes
5 GBE and 7 FE	CFast (SATA CF) Accessible via Front Maintenance Panel6	1x Fixed Internal Storage (960GB) for data storage; 1x Fixed mSATA (OS); 128GB (intended as primary boot device)	USB 2.0/Serial (MUX: Switch, Processor, Modem), RJ45 (Ethernet), USB 3.0, and VGA (HD15)	ARINC 429: 4 Rx, 717 (1) Rx (optional, part number specific)	14 outputs and 12 inputs	
Terrestrial Modem		WI-FI		LED Indicators		
1x 4G/LTE modems; 2x external antenna connection (1 modem populated); Front accessible uSIM (2x) per modem		802.11 a/b/g/n/ac		4x LEDs (PWR, Switch, Tx Lock, Rx1 Lock)		



ARINC 628
ACWAP
ACCESS
POINTS

MODEL NO.	CONNECTIONS	LOCATION	STANDARD	ACCESS METHOD	RF MODULATION	
P33208-002	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE802.1b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS	
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode	Auto Channel Selection
Configurable based on country regulations	802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation	Yes	
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID	Operating mode
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16	AP, with Virtual Controller
Ethernet		Connections	Management	Security MAC filtering		
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections	Local with Virtual Controller	MAC filtering, VPN pass-through		



WIFI
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	ANTENNA TYPE	GAIN
P12951	RF	Cabin	2.4 - 2.5 and 5.1 to 5.9 GHz	Omni-directional	3 dBi
Connector		Impedance	HPBW/Horizontal	HPBW/Vertical	VSWR
TNC		50+-5 ohms	360 degrees	8/10 degrees	1:1.5 max.



PCS
ANTENNA

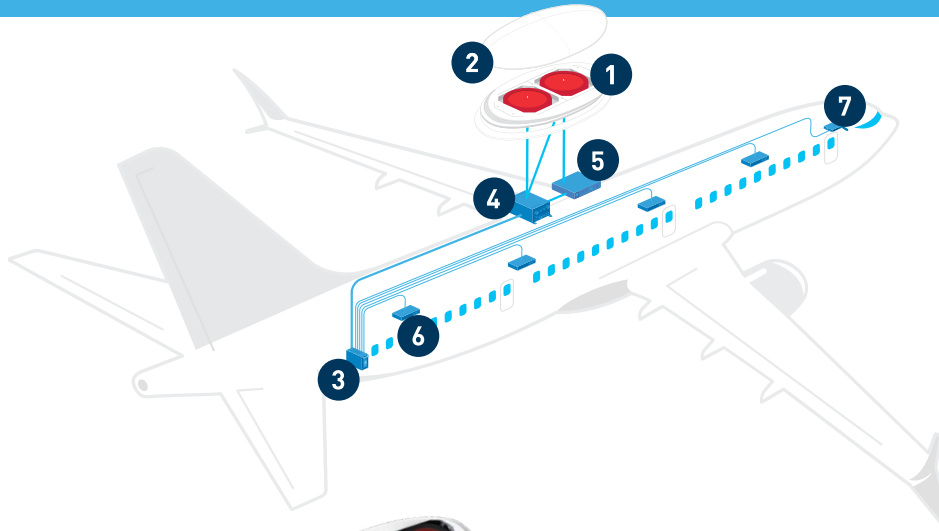
MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector	Impedance	VSWR	Power Consumption
3 dBi		TNC	50 ohms	<2.0	100 W max

DO-160 Qualifications

SECTION	DESCRIPTION	A791 MODMAN	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P35795	P12951	P17663	P33208
DO-160 REVISION LEVEL TESTED		DO160F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A2	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -30°C	GSLT -30°C	GSLT -55°C	
		STOLT -55°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +85°C	GSHT +70°C	GSHT +85°C	
		STOHT +70°C	STOHT +40°C	STOHT +70°C	
		OHT +70°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	B	X	A	C
6	Humidity	A2	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves C & B3	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	Y	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	D	X	X	N/A
13	Fungus Resistance	F	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	X	X	X	A
16	Power Input	X	X	X	A(WF)X
17	Voltage Spike	X	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	X	X	X	R(WF)
19	Induced Signal Susceptibility	X	X	X	ZW
20	Radio Frequency Susceptibility	X	X	X	T
21	Emission of Radio Frequency Energy	X	X	X	M
22	Lightning Induced Transient Susceptibility				B2XXX
		X	X	X	XXC1X
					XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	X	X	X	A
26	Fire & Flammability	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

LINEFIT

2Ku Onboard System



Boeing
B737-MAX 8/9

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 2 RADOME & ADAPTER PLATE	Radome: 107.6 x 43.3 x 9.1 in. (273.3 x 110.1 x 23.2 cm) 75 lbs (476 Kg) Adapter Plate*: 115.5 x 44 x 5.6 in. (293.4 x 111.7 x 14.2 cm) 129.1 lbs (58.7 Kg)	N/A	N/A	N/A	1,170,000
 3 MODMAN	12.6 x 7.5 x 7.8 in. (32.5 x 19.3 x 19.9 cm) 14.5 lbs (6.62 Kg)	95 W	10 CFM Forced air cooled	115 VAC 360-800 Hz	64,000
 4 KANDU	18 x 9.06 x 5.5 in. (45.72 x 23.01 x 13.97 cm) 15.7 lbs (7.12 Kg)	250 W	Passive	115 VAC 360-800 Hz	28,000
 5 KRFU	18 x 9 x 2.9 in. (45.7 x 23 x 7.4) 22.3 lbs (10.1 Kg)	500 W	70 CFM	115 VAC 360-800 Hz	32,000
 6 ACWAP	12.5 x 2 x 8.6 in. (31.8 x 5 x 21.8 cm) 5.0 lbs. (2.26 Kg)	20 W	N/A	115 VAC 360-800 Hz	80,000
 7 SACL-PF	7.36 x 6.3 x 1.5 in. (18.69 x 16.0 x 3.81 cm) 1.9 lbs (1.0 Kg)	AC 14.5 W DC 11 W	Passive	115 VAC 360-800 Hz, or 28 VDC	80,000

*Dimension and weight of adapter plate varies slightly by aircraft. **MTBF targets differ from



Specifications



ARINC 791
MODMAN

MODEL NO.	CONNECTIONS	LOCATION	CASE	PROCESSOR	MEMORY	
P35795-001	ARINC 600	Rack	2024 5052 AI	Intel Skylake COMe-bSL6R, E2S E3-1505L (4x2.0 GHz, 25W TDP)	32GB DDR4 RAM (ECC)	
Ethernet		Flash	Solid State Storage	USB	Arinc 429	AC Discretes
5 GBE and 7 FE	CFast (SATA CF) Accessible via Front Maintenance Panel6	1x Fixed Internal Storage (960GB) for data storage; 1x Fixed mSATA (OS); 128GB (intended as primary boot device)	USB 2.0/Serial (MUX: Switch, Processor, Modem), RJ45 (Ethernet), USB 3.0, and VGA (HD15)	ARINC 429: 4 Rx, 717 (1) Rx (optional, part number specific)	14 outputs and 12 inputs	
Terrestrial Modem		WI-FI		LED Indicators		
1x 4G/LTE modems; 2x external antenna connection (1 modem populated); Front accessible uSIM (2x) per modem		802.11 a/b/g/n/ac		4x LEDs (PWR, Switch, Tx Lock, Rx1 Lock)		



ACWAP
ACCESS
POINTS

MODEL NO.	CONNECTIONS	LOCATION	STANDARD	ACCESS METHOD	RF MODULATION	
P33206	Discrete, Power, RF, Quadrx (Ethernet)	Cabin	IEEE802.11ac, IEEE802.11n 2.0, IEEE802.11a, IEEE8021.b/g, IEEE802.11i support (AES, WEP, WPA, WPA2)	CSMA/CA	802.11a/g/n/ac: OFDM, 802.11b:DSSS	
Operating Channels		Data Rate	Transmit Power	RF Connector	Operating Mode	Auto Channel Selection
Configurable based on country regulations	802.11ac:6.5 to 1300Mbps, 802.11n:6.5 to 300Mbps 802.11a/g:54/48/36/24 /18/12/9/6Mbps, Auto	17dBm max. Four levels adjustable (max/-3dB/-6dB/-9dB)	3 x TNC-type (WLAN1 / WLAN2); Spectrum diversity via RFDiplexer. 3 Spatial Streams.	Simultaneous 2.4GHz and 5GHz Operation	Yes	
WLAN Security		QoS	Load Balancing	Hide SSID	Multiple SSID	Operating mode
WPA, WPA2, Intrusion and Rogue Detection and Suppression		Over the air resource reservation & dynamic rules per application	Coordination among APs and Fast Roaming	Yes	Yes, Capable of 16	AP, with Virtual Controller
Ethernet		Connections	Management	Security MAC filtering		
3 x 10/100/1000 Ethernet with Bypass on front connectors		Up to 250 connections	Local with Virtual Controller	MAC filtering, VPN pass-through		



WIFI
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	ANTENNA TYPE	GAIN
P12951	RF	Cabin	2.4 - 2.5 and 5.1 to 5.9 GHz	Omni-directional	3 dBi
Connector		Impedance	HPBW/Horizontal	HPBW/Vertical	VSWR
TNC		50+-5 ohms	360 degrees	8/10 degrees	1:1.5 max.

Specifications



PCS
ANTENNA

MODEL NO.	CONNECTIONS	LOCATION	FREQUENCY RANGE	FREQUENCY BANDWIDTH	ANTENNA TYPE
P23713	RF	Cabin	806 - 960 MHz and 1710 - 2500 MHz	154 MHz and 790 MHz	Omni-directional
Gain		Connector		VSWR	Power Consumption
3 dBi	TNC	50 ohms	<2.0	100 W max	



CONTENT
LOADER

MODEL NO.	CONNECTORS	LOCATION	POWER CONSUMPTION	POWER REQUIREMENT	COOLING REQUIREMENT
P31672-001	Rectangular Pin (1), USB (2), RJ45 (1), Molex (1)	Cabin	AC 14.5 W DC 11 W	115 VAC 360-800 Hz 28VDC 17VDC to 33VDC	Passive

DO-160 Qualifications

SECTION	DESCRIPTION	A791 MODMAN	WIFI ANTENNA	PCS ANTENNA	ACWAP
PART NUMBER		P35795	P12951	P17663	P33206
DO-160 REVISION LEVEL TESTED		DO160F	REV-E	REV-G	REV-G
4	Temperature & Altitude	A2	A4 (Loss of Cooling X)	F2 (Inflight loss of Cooling X)	A1
		GSLT -30°C	GSLT -30°C	GSLT -55°C	
		STOLT -55°C	STOLT -15°C	STOLT -55°C	
		OLT -15°C	OLT -15°C	OLT -55°C	
		GSHT +85°C	GSHT +70°C	GSHT +85°C	
		STOHT +70°C	STOHT +40°C	STOHT +70°C	
		OHT +70°C	OHT +40°C	OHT +70°C	
5	Temperature Variation	B	X	A	C
6	Humidity	A2	A	C	A
7	Shock & Crash Safety	B	B	E	B
8	Vibration	S Curves C & B3	S Curves C, L, M	S Curve C, L, M, R, Y T Curve C, C1, R	S Curve B
9	Explosion Proofness	X	X	X	N/A
10	Water Proofness	Y	X	X	N/A
11	Fluids Susceptibility	X	X	X	N/A
12	Sand & Dust	D	X	X	N/A
13	Fungus Resistance	F	X	X	N/A
14	Salt Spray	X	X	X	N/A
15	Magnetic Effect	X	X	X	A
16	Power Input	X	X	X	A(WF)X
17	Voltage Spike	X	X	X	A
18	Audio Frequency Conductive Susceptibility – Power Inputs	X	X	X	R(WF)
19	Induced Signal Susceptibility	X	X	X	ZW
20	Radio Frequency Susceptibility	X	X	X	T
21	Emission of Radio Frequency Energy	X	X	X	M
22	Lightning Induced Transient Susceptibility				B2XXX
		X	X	X	XXC1X
					XXE1X
23	Lightning Direct Effects	X	X	2A	N/A
24	Icing	X	X	X	N/A
25	Electrostatic Discharge	X	X	X	A
26	Fire & Flammability	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853	14 CFR 25.853(a) and 14 CFR Section 25.869 (A)(4)

A220-100/300

A319 neo

A320 neo

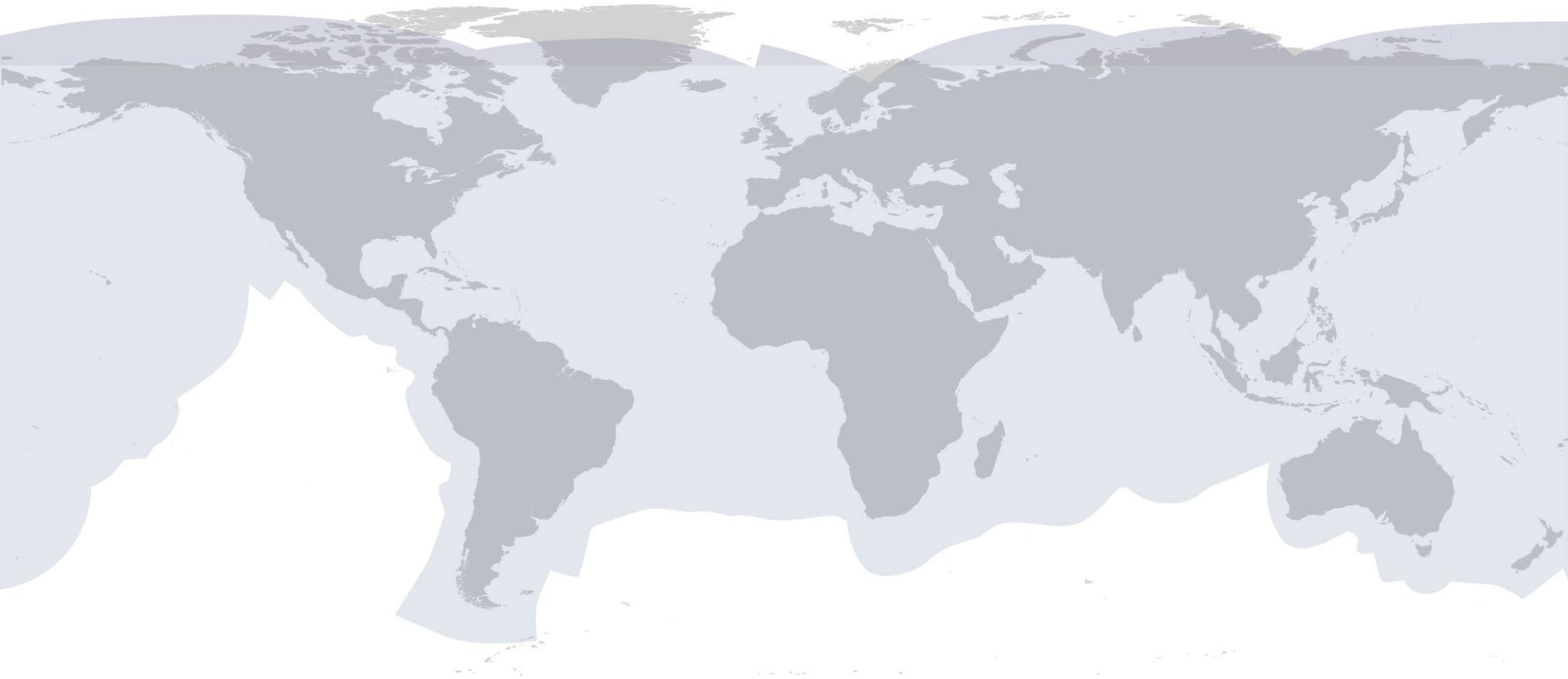
A321 neo

A330 neo

B737

COVERAGE MAP

2021 Intelsat coverage



Current as of June, 2021