The Market for U.S. Military Airborne Communications Systems

Product Code #F632

A Special Focused Market Segment Analysis by:



Analysis 2 The Market for U.S. Military Airborne Communications Systems 2010-2019

Table of Contents

Executive Summary	2
Introduction	3
Trends	3
Competitive Environment	4
Market Statistics	12
Table 1 - The Market for U.S. Military Airborne Communications Systems Unit Production by Headquarters/Company/Program 2010 - 2019	13
Table 2 - The Market for U.S. Military Airborne Communications Systems Value Statistics by Headquarters/Company/Program 2010 - 2019	16
Table 3 - The Market for U.S. Military Airborne Communications SystemsUnit Production % Market Share by Headquarters/Company 2010 - 2019	19
Table 4 - The Market for U.S. Military Airborne Communications SystemsValue Statistics % Market Share by Headquarters/Company 2010 - 2019	20
Figure 1 - The Market for Airborne Communications Systems Unit Production 2010-2019 (Bar Graph)	21
Figure 2 - The Market for Airborne Communications Systems Value Statistics 2010-2019 (Bar Graph)	21
Figure 3 - The Market for Airborne Communications Systems Market Value Breakout 2010-2019 (Pie Chart)	22
Figure 4 - The Market for Airborne Communications Systems Unit Production % Market Share 2010-2019 (Pie Chart)	22
Figure 5 - The Market for Airborne Communications Systems Value Statistics % Market Share 2010-2019 (Pie Chart)	23
Figure 6 - The Market for Airborne Communications Systems Segment Unit Statistics % Market Share 2010-2019 (Pie Chart)	23
Figure 7 - The Market for Airborne Communications Systems Segment Value Statistics % Market Share 2010-2019 (Pie Chart)	24
Conclusion	25

* * *

FORECAST INTERNATIONAL©2010

PROGRAMS

The following reports are included in this section: (Note: a single report may cover several programs.)

ARC-190(V) ARC-201 ARC-210(V) ARC-231 Assured Worldwide Connectivity Common Data Link (CDL) Hawklink – Harris Family of Advanced Beyond line-of-sight Terminals (FAB-T) ICNIA RF Sensors & Countermeasures (U.S. Air Force) Tactical Data Link – Fighters Tactical Data Networks Enterprise USQ-140

Introduction

Background. This Forecast International analysis examines the market for United States military airborne communications systems. This market is defined as airborne military communications systems produced by a United States manufacturer, or airborne military communications systems purchased by the United States.

Among the types of communications transmitted or received by the military are radar tracks, target information, imagery, and command assignments. The information needs to be transmitted or acquired in realtime or near real-time in order to be the most useful to troops and commanders. Of note, the senders and receivers can be human or machine.

Method. For the purpose of this analysis, Forecast International defines the U.S. military airborne communications market as the 12 systems or programs

System/Program

USQ-140 ARQ-58 ARC-201 Integrated Communications/Navigation/Identification Avionics (ICNIA) System ARC-231 ARC-190 ARC-210 Family of Advanced Beyond line-of-sight Terminals (FAB-T) RF Sensors & Countermeasures (U.S. Air Force) Tactical Data Networks Enterprise Fighter Tactical Data Link Assured Worldwide Connectivity

listed below (also see Table 2). Consequently, this study does not examine every airborne military communications product being developed or manufactured, nor does it look at every airborne military communications program in existence.

"The Market for U.S. Military Airborne Communications Systems" integrates data gathered by Forecast International from open, unclassified sources throughout the world. The information is collected from government agencies, company officials, industry experts, defense publications, and a variety of other sources.

Forecast International generated the statistics for this analysis on September 22, 2010. These statistics represent a "snapshot in time" of the projected 10-year market performance of the 12 systems or programs listed below.

Prime Contractor

Data Link Solutions/ViaSat Harris ITT Northrop Grumman

Raytheon Rockwell Collins Rockwell Collins Boeing Manufacturer Varies Manufacturer Varies Manufacturer Varies Manufacturer Varies

* * *

Outlook

- Forecast International projects that defense departments worldwide will procure more than 13,000 ARC-210 radios in the years ahead
- Based on the personal computer model of software customization, ARC-210 customers have the ability to upgrade communications capabilities via software



Orientation

Description. The ARC-210 is an airborne military radio manufactured by Rockwell Collins. The ARC-210 operates by software.

Sponsor

Rockwell Collins Inc 400 Collins Rd NE Cedar Rapids, IA 52498-0001 USA Tel: +1 (319) 295 1000 Fax: +1 (319) 295 5429 Status. In production and service.

Application. Communications

Price Range. According to the U.S. General Services Administration (GSA) Advantage Web site, the price of one ARC-210 airborne military radio ranges from \$44,205 to 72,285.

Note: Among other factors, price appears to vary according to the number of radios ordered (the larger the quantity ordered, the lower the price).

Contractors

Prime

Rockwell Collins Inc	http://www.rockwellcollins.com, 400 Collins Rd NE, Cedar Rapids, IA 52498-0001 United
	States, Tel: + 1 (319) 295-1000, Fax: + 1 (319) 295-5429, Prime

Comprehensive information on Contractors can be found in Forecast International's "International Contractors" series. For a detailed description, go to www.forecastinternational.com (see Products & Samples/Governments & Industries) or call + 1 (203) 426-0800. Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; rich.pettibone@forecast1.com



Technical Data

	<u>Metric</u>	<u>U.S.</u>			
Dimensions					
Size (RI-1556)	12.7 cm x 14.2 cm x 25.1 cm	5 in x 5.6 in x 9.9 in			
weight (RT-1556)	5.53 Kg	12.2 ID			
Characteristics					
Frequency Range	30 MHz - 88 MHz FM tactical/close air su	oport, SINCGARS-V			
(normal/secure voice)	108 MHz -118 MHz AM receive only				
	118 MHz -137 MHz AM air traffic control				
	137 MHz -156 MHz FM land mobile				
	156 MHz -174 MHz FM maritime				
	225 MHz - 400 MHz AM CASS/DICASS, I	HAVE QUICK, HAVE QUICK I			
	225 MHz - 400 MHz FM HAVE QUICK, H	AVE QUICK II			
RT-1939- Gen 5	UHF 225 MHz – 512 MHz military/homeland defense				
	UHF 806-824, 851-869, 869-902, 935-941 MHz public safety bands				
Frequency Spacing	25 kHz, with 5 kHz increments in normal modes				
	1.25 KHZ for ECCM modes				
Dresst Character	8.33 KHZ for European ATC				
Preset Channels	25 simplex frequencies in normal mode				
	25 ECCIVI NEIS				
	SINCGARS due channel				
	5 half dunlay 25-kHz channels for SATCOM				
	57 VHE maritime channels				
ECCM Capability	HAVE OUICK I/IL SINCGARS (embedded	4)			
Data Rate	Up to 80 000 bps	*)			
Power Requirements	150 W transmit: 25 W receive				
Transmitter Power Output	AM 10-15 W: FM 15-22 W				
Operating Temperature	-54°C to +71°C up to 95°C for 30 min				
Operating Altitude	Up to 70,000 ft				
Environmental	MIL-E-5400 Class 2				



Rockwell Collins ARC-210 Receiver/Transmitter

Source: Rockwell Collins

Page 2

Variants/Upgrades

Variants of the Rockwell Collins ARC-210 include the ARC-210(V)2, ARC-210(V)3, ARC-210(V)4, and ARC-210, Generation 5.

Program Review

In March of 2006, the United States Navy awarded Rockwell Collins a \$6.2 million order against a previously awarded basic ordering agreement (N00019-05-G-0024) for services in support of the design and development of the fifth generation of the ARC-210 radio (ARC-210, Generation 5).

In the summer of 2007 (July 2007), Rockwell Collins received a modification to a previously awarded contract from the U.S. Navy to produce more than 300 ARC-210 radios for the U.S. Air Force. The following summer (August 2008), the U.S. Navy awarded Rockwell Collins a modification to a previously awarded contract to manufacture more than 160 ARC-210 radios for the Government of Australia.

In February 2009, Rockwell Collins received an order from the U.S. Navy against a previously issued Basic

Ordering Agreement to "evolve" the Ultra High Frequency (UHF) Satellite Communication (SATCOM) waveform capability in the ARC-210, Generation 5. In June of 2009, the U.S. Navy awarded Rockwell an order against a previously issued Basic Ordering Agreement for services in support of cryptographic work for the fifth generation of the ARC-210.

In March 2010, Rockwell Collins received a modification to a previously awarded contract from the U.S. Navy to produce more than 120 ARC-210 radios. In May of 2010, the U.S. Navy awarded Rockwell a modification to a previously awarded contract to manufacture ARC-210 radios for the U.S. Army, U.S. Air Force, and the U.S. Navy.

Funding

Revenue generated by Rockwell Collins funds production of the ARC-210.

Contracts/Orders & Options

	Award	
<u>Contractor</u> Rockwell Collins	(<u>\$ millions)</u> 25.8	<u>Date/Description</u> Jul 2006 – A 10-year contract for performance-based logistics (PBL) support of ARC-210(V) systems used on aircraft and ships. This contract includes one five-year option that, if exercised, would bring the total contract value to \$53.2 million. Work is expected to be completed Jul 2016. The Naval Inventory Control Point is the contracting agency. (N00383-06-D-007G)
Rockwell Collins	24.85	Jul 2007 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for ARC-210(V) Electronic Protection Radio Systems for the U.S. Air Force. This modification consists of 329 each RT-1851 ARC-210 Receiver-Transmitter Radios; 323 each C-12561 Radio Control Sets, and 294 each MT-4935 Mounting Bases for the Air Force's A-10 aircraft. Work was scheduled to be completed in Jul 2008. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	8.72	Nov 2007 – The U.S. Navy awarded Rockwell Collins a modification to exercise an option for ARC-210(V) Electronic Protection Radio Systems for the Air Force. This modification consists of six each high power amplifiers; six each diplexers; and six each 5-year warranties for the Air Force's F-15E aircraft. Also, 386 each antennas and 392 amplifiers for the Air Force's A-10 aircraft. Work was expected to be completed in Jun 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.



Contractor	Award	Data/Decorintion
Rockwell Collins	7.42	Feb 2008 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for the FY08 production of ARC-210(V) Electronic Protection Radio Systems for U.S. Air Force (USAF) A-10 and F-16 aircraft and U.S. Navy (USN) MV-22 aircraft. This option exercise consists of 58 RT-1824(C) ARC-210 Receiver-Transmitter Radios for the U.S. Navy; 54 C-12561A Radio Control Sets for the U.S. Navy (29) and U.S. Air Force (25). In addition, this option provides for 50 RT-1851A(C) ARC-210 Receiver Transmitter Radios; six MT-4935 Mounting Bases; 60 MT-6567 Mounting Bases; 60 C-12719 Controls; and 60 RF Filter Diplexers for the U.S. Air Force. Work was scheduled to be completed in Jul 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	6.36	Mar 2008 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for the FY08 production of 137 each RT-1556B ARC-210 Receiver-Transmitter Radios and 81 each C-11898A Radio Control Sets for the U.S. Air Force Unmanned Air Vehicle Predator aircraft. Work was scheduled to be completed in May 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	11.97	Aug 2008 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for the FY08 production of ARC-210(V) Electronic Protection Radio Systems for the Government of Australia's MRH-90 helicopter. This modification provides for 162 each RT-1851A(C) Receiver Transmitters and HAVEQUICK Royalty Fee – Category one licenses for each radio. Work was scheduled to be completed in Nov 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	5.60	Aug 2008 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for the FY08 production of ARC-210(V) Electronic Protection Radio System for the Air Force F-16 aircraft. This modification includes 74 RT-1851A(C) ARC-210 receiver-transmitter radios; 59 MT-6567 mounting bases; 62 C-12719 controls; and 59 RF filter diplexers. Work was scheduled to be completed in Dec 2008. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	8.16	Sep 2008 – The U.S. Navy awarded Rockwell Collins a firm-fixed-priced order against a previously issued Basic Ordering Agreement (N00019-08-G-0016) for services in support of the FY08 ARC-210 Radio hardware design changes to evolve the Ultra High Frequency (UHF) satellite communication waveform capability in the next generation tactical networking radio, RT-1939(C) radio system. Tasking includes program management, system engineering, hardware development, and data deliverables. Work was scheduled to be completed in Aug 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	6.90	Sep 2008 – The U.S. Navy awarded Rockwell Collins a firm fixed priced order against a previously issued Basic Ordering Agreement (N00019-08-G-0016) for services in support of the FY08 ARC-210 Radio software changes to evolve the Ultra High Frequency Satellite Communication waveform capability in the next generation Tactical Networking Radio, RT-1939(C) radio system. Tasking includes program management, system engineering, and data deliverables. Work was expected to be completed in Feb 2010. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.

Page 5
ARC-210(V)

	Award	
Contractor Rockwell Collins	<u>(\$ millions)</u> 6.78	Date/Description Sep 2008 – The U.S. Navy awarded Rockwell Collins a firm-fixed-priced order against a previously issued Basic Ordering Agreement (N00019-08-G-0016) for services in support of the FY08 ARC-210 Radio software changes to evolve the Ultra High Frequency Satellite Communication (SATCOM) waveform capability in the Next Generation Tactical Networking Radio, RT-1939(C) radio system. Tasking includes program management, system engineering, hardware design, and data deliverables. Work was scheduled to be completed in Sep 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	6.80	Dec 2008 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm fixed priced contract to exercise an option for the FY09 production of the ARC-210(V) Electronic Protection Radio System for the U.S. Navy's MH-60R and MH-60S aircraft. This modification consists of 96 RT-1794 ARC-210 Receiver-Transmitter Radios; 48 C-12561A Radio Control Sets; 96 MT-6567 Mounting Bases; 48 MT-7006 Amplifier Mounts; 48 AM-7526 High Power Amplifiers; and 48 MX-11745 LNA Diplexer with Hi Power RF Switch. Work expected to be completed in Dec 2010. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity (N00019-05-C-0050).
Rockwell Collins	6.29	Feb 2009 – The U.S. Navy awarded Rockwell Collins a firm fixed priced order against a previously issued Basic Ordering Agreement (N00019-08-G-0016) for services in support of the FY09 ARC-210 Radio software changes to evolve the Ultra High Frequency (UHF) Satellite Communication (SATCOM) waveform capability in the Next Generation Tactical Networking Radio, RT-1939(C) radio system. Tasking includes program management, system engineering, hardware design, and data deliverables. Work was scheduled to be completed in Sep 2010. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	12.34	Feb 2009 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm fixed priced contract (N00019-05-C-0050) to exercise an option for the FY09 production of ARC-210(V) Electronic Protection Radio System for the U.S. Air Force F-15 E aircraft. This modification provides for 121 RT-1851A(C) Receiver-Transmitter (RT) radios; 121 RT Warranties; 121 AM-7526 High Power Amplifiers; and 121 MX-11641 LNA Diplexers. Work was scheduled to be completed in Dec 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	7.02	Feb 2009 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-05-C-0050) to exercise an option for the FY09 production of the ARC-210(V) Electronic Protection Radio Systems for the U.S. Air Force F-16 Block 30 aircraft. This modification provides for 90 MT-6567/ARC mounting bases; 90 ARC 210-C-12719 radio set controls; 90 RT-1851A(C)/ARC receiver-transmitters; and 90 ARC 210 RF filter diplexers. Work was scheduled to be completed in September 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	7.64	Apr 2009 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm fixed priced contract (N00019-05-C-0050) to exercise an option for the FY09 production of the ARC-210(V) Electronic Protection Radio Systems for the U.S. Air Force F-16 Block 40-50 aircraft. This modification provides for 118 MT-4935/ARC mounting bases, and 118 RT-1851A (C)/ARC receiver-transmitters. Work was scheduled to be completed in Sep 2009. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	6.46	Jun 2009 – The U.S. Navy awarded Rockwell Collins a firm-fixed-priced order against a previously issued Basic Ordering Agreement (N00019-08-G-0016) for services in support of the FY09 tactical secure voice cryptographic equipment application implementation, as part of the RT-1939(C)/ARC-210 radio system. Work was scheduled to be completed in Jul 2010. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.

<u>Contractor</u> Rockwell Collins	Award (<u>\$ millions)</u> 450.00	<u>Date/Description</u> Nov 2009 – Rockwell Collins announced that the U.S. Navy had awarded Rockwell a four-year contract to produce ARC-210 radios. The contract has a potential value of \$450 million over the four-year life of the program. Included in the contract is production of the fifth generation of the ARC-210 radio (ARC-210, Generation 5).
Rockwell Collins	7.32	Feb 2010 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract to exercise an option for the procurement of 208 ARC-210 radio high power amplifiers and LNA diplexers for the Air Force F-16 Block 40/50 aircraft. Work is expected to be completed in Jul 2011. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity (N00019-09-C-0069).
Rockwell Collins	5.94	Mar 2010 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-09-C-0069) to exercise an option for the procurement of 124 ARC-210 RT-1824(C)/ARC receiver transmitters for the F/A-18E/F and EA-18G aircraft. Work is expected to be completed in Dec 2010. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	6.60	Mar 2010 - The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-09-C-0069) to exercise an option for the procurement of ARC-210(V) electronic radio and ancillary equipment for the H-1 Helicopter. Equipment being procured includes 88 ARC-210 receiver transmitters; 22 radio set controls; 66 mounting bases; 22 amplifier mounts; 22 high power amplifiers, 22 LNA diplexers; 50 nine- inch tunable antennas and 48 digital converters. Work is expected to be completed in May 2011. The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.
Rockwell Collins	11.05	May 2010 – The U.S. Navy awarded Rockwell Collins a modification to a previously awarded firm-fixed-priced contract (N00019-09-C-0069) to exercise an option for the procurement of ARC-210(V) electronic radios and ancillary equipment for the EA-18G, F/A-18E/F, F-16 Block 40, and U.S. European Command aircraft. Equipment being procured includes 40 RT-1556B receiver transmitters; 144 RT-1851A(C) receiver transmitters; and 143 MT-4935 mounting bases. Work is expected to be completed in Dec 2011. This contract combines purchases for the Navy (\$1,768,320; 16 percent); Air Force (\$9,212,346; 83.4 percent); and Army (\$66,536; 0.6 percent). The Naval Air Systems Command, Patuxent River, MD, is the contracting activity.

Timetable

<u>Month</u>	<u>Year</u> 1990 1992	Major Development TECHEVAL of ARC-210 initiated OPEVAL completed: Milestone III production decision: LRIP contract awarded
Jan	1994	Deliveries to U.S. services begin Start of ABC-210 system upgrade reviews
	1999	U.S. Navy's ARC-210/RT-1794 project begins to receive RDT&E funding
Dec	2004	ARC-210 contract awarded for Canadian and Australian programs
Mar	2006	U.S. Navy awards Rockwell an order for services in support of the design and development of the fifth generation of the ARC-210 radio
Jul	2007	Rockwell Collins receives a contract modification from the U.S. Navy to produce more than 300 ARC-210 radios for the U.S. Air Force
Aug	2008	The U.S. Navy awards Rockwell Collins a contract modification manufacture over 160 ARC-210 radios for the Government of Australia
Jun	2009	The U.S. Navy awards Rockwell Collins an order for services in support of cryptographic work for the fifth generation of the ARC-210
May	2010	The U.S. Navy awards Rockwell Collins a contract modification to manufacture ARC-210 radios for the U.S. Army, U.S. Air Force, and the U.S. Navy

Worldwide Distribution/Inventories

Forecast International believes the following countries have purchased the ARC-210: Canada, Finland, Greece, Italy, Malaysia, the Netherlands, New Zealand, Poland, South Korea, Spain, Switzerland, Thailand, Taiwan, the United Kingdom, and the United States. Rockwell Collins states that the ARC-210 is operating in more than 40 countries.

Forecast Rationale

The ARC-210 is an airborne military radio manufactured by Rockwell Collins. The ARC-210 operates via software.

Forecast International projects that defense departments worldwide will buy some 13,200 ARC-210 radios in the coming years.

The ARC-210 airborne military radio provides two-way voice and data communications over the 30 to 512 MHz

frequency ranges, including the UHF DAMA satellite communication (SATCOM) band. According to Rockwell, the ARC-210's flexible, multi-mode architecture allows software re-programmability and upgrading for future requirements.

Based on the PC model of software customization, ARC-210 users/customers have the ability to upgrade communications capabilities via software.

ESTIMATED CALENDAR YEAR UNIT PRODUCTION **Designation or Program High Confidence Good Confidence** Speculative Thru 2009 Total **Rockwell Collins Inc (Prime)** ARC-210 Military <> United States <> Air Force ARC-210 Military <> United States <> Army ARC-210 Military <> United States <> Coast Guard ARC-210 Military <> United States <> Department of Defense ARC-210 Military <> United States <> Navy 12,295 ARC-210 Military <> Worldwide <> Department of Defense 13,200 Subtotal 13,200 Total

Ten-Year Outlook

FORECAST INTERNATIONAL

ORDER FORM	FOR PROPER SHIPPIN	G, PLEASE PROVIDE A	LL OF THE FOLLOWING INFORMATION
Name		Title	
Company			
Street Address			
City	State/Prov	Country	Zip
Phone	Fax		Check Enclosed Bill Company (Purchase Order # and Signature Required)
E-Mail			Quotation Requested

_____ Exp.____ csc# _____

VISA MasterCard

American Express

Cardholder Name _____

Card# _____

Billing Address (if different from above) _____

Name of Product/Service	Code		E-Mail Address	Qty.	Price
Please include your e-mail	address to	5	Subtotal		
twice-weekly E-Market Al	etters.		hipping		
E-Market		In Connecticut add 6% s	ales tax		
ALERT			Grai		

SHIPPING AND HANDLING RATES

	U.S.	World		U.S.	World		U.S.	World
Market Intelligence Services			Market Intelligence Libraries			Governments & Industries		
Binder	\$45	\$85	Complete Lil	Complete Library			\$540	\$1,020
DVD	\$50	\$95	(Civil/Com	mercial &	Military)	DVD	\$50	\$95
Binder & DVD	\$95	\$180	Binder	\$1,575	\$2,975	Internationa	I Military I	Markets
Binder & RT	\$45	\$85	DVD	\$50	\$95	(A Subset	of G&I ab	ove)
			Military Marl	ket Library	/	Binder	\$270	\$510
Worldwide Inve	ntories		Binder	\$1,440	\$2,720	DVD	\$50	\$95
Aerospace Sy	stems		DVD	\$50	\$95	Naval		
CD	\$50	\$95	Civil/Comme	ercial Libra	iry	Binder	\$90	\$170
Weapons Syst	tems		Binder	\$360	\$680	DVD	\$50	\$95
Hard Copy	\$45	\$85	DVD	\$50	\$95	Power		
CD	\$50	\$95				Binder	\$90	\$170
Power System	าร		Market Intellig	ence		DVD	\$50	\$95
Hard Copy	\$45	\$85	Group Librar	ies		Weapons		
			Aerospace			Binder	\$180	\$340
Focused Market	t		Binder	\$360	\$680	DVD	\$50	\$95
Segment Anal	yses		DVD	\$50	\$95	NOTE: No cha	arge for Real-Time f	ormat.
Hard Copy	\$25	\$45	Electronics			0011		d
			Binder	\$360	\$680	2011 Historic	Art Calen	dar
			DVD	\$50	\$95		\$5.95	\$12.95

NOTE: ORDERS CAN TAKE UP TO 5 BUSINESS DAYS TO SHIP.

22 Commerce Road, Newtown, CT 06470 USA • Phone: 203.426.0800 • Fax: 203.426.0223 Toll-Free (U.S. and Canada): 800.451.4975 • E-mail: sales@forecast1.com • Website: www.forecastinternational.com

WORLDWIDE SALES OFFICES

HEADQUARTERS USA

FORECAST INTERNATIONAL INC.

22 Commerce Road, Newtown, CT 06470 USA Phone: 203.426.0800 Fax: 203.426.1964

SALES/CUSTOMER SERVICE/MARKETING

Phone: 203.270.0633 Worldwide Toll-Free: 800.451.4975 U.S. & Canada Fax: 203.426.0223 E-Mail: sales@forecast1.com E-Mail: info@forecast1.com E-Mail: customerservice@forecast1.com

PROPRIETARY RESEARCH & CONSULTING

Phone: 203.426.0299 Fax: 203.426.1964 E-Mail: consulting@forecast1.com

EDITORIAL

Phone: 203.270.0111 Fax: 203.426.4262 E-Mail: queries@forecast1.com

TECHNICAL SUPPORT

Phone: 203.270.0629 Fax: 203.426.0223 E-Mail: support@forecast1.com

WEBSITE ADDRESSES

www.forecastinternational.com www.fiplatinum.com

HEADQUARTERS EUROPE

(INCLUDING RUSSIA)

HAWK ASSOCIATES LTD.

UNITED KINGDOM

Templehurst House New Street, Chipping Norton Oxon, OX7 5LJ, U.K. Phone: (44) 1608 643281 Fax: (44) 1608 641159 E-Mail: support@hawkinformation.com Website: www.hawkinformation.com Contact: Mr. Michael Hobbs

HAWK ASSOCIATES LTD.

FRANCE

6 Rue de Levis, Paris 75017 FRANCE Phone: (33) 1 4294 0693 Fax: (33) 1 4294 0433 E-Mail: france@hawkinformation.com Contact: Mr. Edward Hobbs

CHINA AND SOUTHEAST ASIA

CHINA NATIONAL PUBLICATIONS

I & E GROUP CORPORATION

PO Box 88 16 Gongti East Road Chaoyang Beijing 100020 CHINA Phone: (86) 10 6506 6688 ext. 8307 Fax: (86) 10 6586 6970 E-Mail: xiaoxiao0640@hotmail.com Contact: Mr. Xiaoxiao Zhang

JAPAN

AVIATION RESEARCH INSTITUTE

1-427-2 Takano Misato City Saitama Pref Tokyo 341-0035 JAPAN Phone: (81) 489 71 5040 Fax: (81) 489 55 7151 E-Mail: max@arijapan.com Website: www.arijapan.com/forecast Contact: Mr. Kenichi Oyama

REPUBLIC OF KOREA

PAMANONG TRADING COMPANY

275-2 Yangjae Dong Seocho-Gu Seoul 137-722 KOREA Phone: (82) 2 572 4349 or (82) 2 572 4371 Fax: (82) 2 572 4370 E-Mail: nhk@forecast1.com Website: www.forecast1.co.kr Contact: Ms. Nam Hee Kim

TERMS AND CONDITIONS

DISCOUNT PRICING

Discount Pricing – Codes prefaced by CH, RH, Z, P or RTPS, and multi-user subscriptions, include a discount that is reflected in the marketed cost.

BOOKSELLER DISCOUNTS

For information, call 203.270.0633 or 800.451.4975 (Toll-Free U.S. & Canada). E Mail: info@forecast1.com.

NEW CLIENTS

Payment in full is required with the initial order.

TERMS

Net 30 days. For overdue accounts we reserve the right to assess interest of 12% annually, and add collection fees.

PURCHASE ORDER

If company requires, please submit a purchase order to ensure timely delivery.

RETURNS OR REFUNDS

Due to the nature of our products, no returns are accepted and no refunds are provided.

FORMS OF PAYMENT

We accept VISA, MasterCard, American Express, or a company check drawn on a U.S. bank in U.S. dollars. Wire Transfer Details: Contact customerservice@forecast1.com or call 203.270.0633.

Please ensure bank charges are not deducted from the total amount due. Note: Include the quotation or invoice number with your payment.

DATA USAGE

Photocopy/Copyright Permission: Forecast International observes all Copyright laws. Reproduction and distribution of any product is prohibited by law. To obtain a release, please call 203.270.0633 or contact customerservice@forecast1.com.

ELECTRONIC DATA LICENSING

All products provided on DVD or CD, or in Real-Time, are sold and licensed for single-site, single-user applications. Multi-site, multi-user licensing is available. Call 203.270.0633 or contact sales@forecast1.com to discuss your requirements.

22 Commerce Road, Newtown, CT 06470 USA • Phone: 203.426.0800 • Fax: 203.426.0223 Toll-Free (U.S. and Canada): 800.451.4975 • E-mail: sales@forecast1.com • Website: www.forecastinternational.com