communications

Aviation Communications
and Surveillance Systems

Aviation Communications & Surveillance System

2001 PRODUCT CATALOG

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TABLE OF CONTENTS

CHAPTER	DESCRIPTION	PAGE
	INTRODUCTION	5
1.0	ORDERING	6
	CONTACT INFORMATION	7-8
2.0	PRODUCTS AND PRICES	9
	TCAS DIRECTIONAL ANTENNA TABLE	10
3.0	INSTALLATION	10
4.0	THIRD PARTY PRODUCTS	11
5.0	PUBLICATIONS	12-13
6.0	L3 SUPPORT CENTERS	14
	CHANGE 7 INFORMATION	14
7.0	POLICY	15
8.0	PAYMENT PROCEDURES	16
	NEW ACCOUNTS	17
9.0	END USE/END USER CERTIFICATION	18
10.0	CUSTOMER CREDIT APPLICATION	19-20
11.0	WARRANTY	21

INTRODUCTION

L-3 Communications is pleased to provide this copy of the 2001 Aviation Communications & Surveillance System's (ACSS) Price Catalog (Publication Number L01-0001-001). This catalog includes general information about our products and services as well as a list of line replaceable units (LRUs) that are normally selected by operators during initial and follow-on provisioning activities. This catalog is valid for orders placed anytime from January 1, 2001 through December 31, 2001 with scheduled deliveries prior to April 1, 2002.

The sale of the legacy Honeywell TCAS product line to L-3 Communications was completed on April 28, 2000. This marks the beginning transition for L-3 Communications' Aviation Communications and Surveillance Systems Division. L-3 Communications' surveillance product line includes TCAS computer units, Mode S transponders, antennas, display units, control panels and associated TCAS related hardware.

During this transition period, Honeywell will continue to provide migration and transition of product production and support services to L-3 Communications until April 2002. The TCAS products will continue to be manufactured under FAA approvals granted to Honeywell until such time as L-3 communications obtains their own FAA manufacturing approvals and TSO certifications and relocate into their own facility.

L-3 Communications Marketing and Customer Support Team is comprised of professionals located around the world. With a strong understanding of avionics and the aviation industry, the Marketing professionals, Customer Support Engineers (CSE) and Application Engineers are your primary source of information regarding L-3 Communications' new and existing products and systems. They can assist in answering questions regarding the functions and features of the complete L-3 Communications product line, as well as provide presentations and proposals for your desired avionics.

The CSE and Marketing professionals work as a dedicated team in supporting their specific region. Should you have questions or concerns, your local L-3 Communications representatives will work to satisfy your needs.

AVAILABILITY

Many of the L-3 Communications products are considered stock items and are available for immediate shipment. Situations do arise where material shortages cause lead-times to be placed on these items. Contact your Marketing representative for the latest lead-time and availability information.

HOW TO ORDER

ORDERING L-3 COMMUNICATIONS EQUIPMENT IS EASY. SIMPLY PROVIDE US:

1. PURCHASE ORDER NUMBER
2. SHIPMENT ROUTING
3. UNIT NAME AND PART NUMBER
4. QUANTITY
5. DELIVERY SCHEDULE

Purchase Order Acceptance and Acknowledgment

Order acknowledgment will advise shipping dates, price correction, part number supercede, etc.

Order will be accepted to catalog lead-time or customer requested date, whichever is greater. In the event, customers request delivery in less than catalog lead-time, L-3 Communications will accept such orders on a best effort basis.

In instances where quantities ordered prohibit total shipment within specified lead-times, orders will ordinarily be filled partially from stock and the balance scheduled for earliest available delivery thereafter.

In the case of conflict between the terms and conditions of this Price Catalog and any purchase order issued to L-3 Communications, the terms and conditions of this Price Catalog and any amendment thereof shall prevail. Acceptance and/or acknowledgment of purchase orders by L-3 Communications shall not be construed as a waiver to the order of precedence herein.

CONTACT INFORMATION

For product availability and lead-time information, contact your local Marketing representative listed below.

To place your order, telephone, fax, or mail to:

L-3 COMMUNICATIONS
AVIATION COMMUNICATIONS & SURVEILLANCE SYSTEMS
PO Box 21111
M/S H16A5
Phoenix, AZ 85027

TEL: (602) 436-1856
FAX: (602) 436-1252

Marketing

	Phone	Facsimile	Email Adress
Bill Pollak Vice President, Sales And Support	(602) 436-7788	(602) 436-1252	bill.pollak@l-3com.com
Don Schumann Director, Airline And Oem Marketing	(602) 436-1946	(602) 436-1252	don.schumann@l-3com.com
Larry Clark Director, Business And General Aviation Marketing	(602) 436-8197	(602) 436-1252	larry.clark@l-3com.com
Tom Dooling Director, Military And Helicopter Marketing	(602) 436-8116	(602) 436-1252	thomas.dooling@l-3com.com
Roberto Pino North American Marketing Manager	(602) 436-5116	(602) 436-1252	roberto.pino@l-3com.com
Zoila Herring North American Marketing Manager	(602) 436-2038	(602) 436-1252	zoila.herring@l-3com.com
Jose Godoy Latin America Marketing /Customer Support	(305) 216-7693	(305) 273-0818	jose.godoy@l-3com.com
Mike Martin Regional Director, Asia Pacific Marketing/customer Support	(602) 722-1921		mike.martin@l-3com.com
Julian Shearer Regional Director, Europe/Middle East/Africa Marketing/customer Support	(44) 208 579 1415		julian.shearer@l-3com.com
Ian Thomas Regional Marketing Manager, Australia/New Zealand/South Pacific	(61) 4 1044 9649	(61) 3 9589 1621	karaerospace@bigpond.com

Customer Support

	Phone	Facsimile	Email Adress
Jeff Quackenbush Director, Sales/Customer Support	(602) 436-1857	(602) 436-1252	jeff.quackenbush@l-3com.com
Desi Stelling Customer Support Engineer, Airlines	(602) 436-2617	(602) 436-6899	desi.stelling@l-3com.com
Larry Tank Customer Support Engineer, Business/General Aviation And Helicopters	(602) 436-2726	(602) 436-6899	larry.tank@l-3com.com
Mike Tremose Customer Support Engineer, Regional Airlines And Military	(602) 436-2367	(602) 436-6899	michael.tremose@l-3com.com
Jose Godoy Latin America Sales/Customer Support Manager	(305) 216-7693	(305) 273-0818	jose.godoy@l-3com.com
Mike Martin Regional Director, Asia Pacific Customer Support/Marketing	(602) 722-1921		mike.martin@l-3com.com
Julian Shearer Regional Director, Europe/Middle East/Africa Customer Support/Marketing	(44) 208 579 1415		julian.shearer@l-3com.com
Honeywell CSE* PHX Staff Hotline	(602) 436-4400		

Customer Response Center (CRC)

	Phone	Facsimile	Email Address
Technical Assistance	(602) 436-2005	(602) 822-7206	acss.crc@l-3com.com

AOG LRU ORDERS * (800) 872-7739 OR (602) 436-5977

Spares And Pubs* (602) 436-0272 (602) 822-7272

*** Honeywell will continue to provide migration and transition of product production and support services to L-3 communications until April 2002.**

PRODUCTS AND PRICES

Listed below are the individual L-3 Communications product part numbers, descriptions and prices:

MODEL	PART NUMBER	DESCRIPTION	UNIT PRICE
CX-910	4052190-90x	Air Transport ATC TCAS Control Panel.	Price Upon Request
TD-910	4067487-901	Pressure Transducer	$7,458
DV-910	4067241-860	Vertical Speed Indicator / Traffic-Resolution Advisory (VSI/TRA) color display.	$40,603
IK-850	7510351-901	Spacer Kit, mounting tray	$ 30
RCZ-852	7510700-850	Regional / Corporate Diversity Mode S Level 3A Transponder	$17,004
IK-415	7510707-968	RCZ-852 transponder Mount Kit	$1,314
AT-910	7514081-9xx	TCAS Directional Antenna (**Reference TABLE 1)**	$10,239
RT-950	7517900-10001	TCAS 2000 Computer, 6 MCU backward compatible to the CAS II for transport aircraft. Certified at Boeing.	$107,498
RT-950	7517900-10002	TCAS 2000 Computer, 6 MCU backward compatible to the TCAS II or transport aircraft. Certified with Airbus CFDS changes.	$107,498
RT-950	7517900-10003	TCAS 2000 Computer, 6 MCU ACAS II compliant software (Change 7) per DO-185A.	$110,498
RT-950	7517900-10004	TCAS 2000 Computer, 6 MCU, interfaces to Collins Change 7 transponder.	$110,498
RT-951	7517900-55001	TCAS 2000 Computer, 4 MCU with internal cooling fan.	$107,498
RT-951	7517900-55002	TCAS 2000 Computer, 4 MCU with internal cooling fan.	$107,498
RT-951	7517900-55003	TCAS 2000 Computer, 4 MCU ACAS II compliant software (Change 7) per DO-185A.	$110,498
RT-951	7517900-55004	TCAS 2000 Computer, 4 MCU, interfaces to Collins Change 7 transponder.	$110,498
RT-951	7517900-71003	TCAS 2000 Computer, 4 MCU (short handle) ACAS II compliant software (Change 7) per DO-185A.	$110,498
RT-951	7517900-71004	TCAS 2000 Computer, 4 MCU (short handle), interfaces to Collins Change 7 transponder.	$110,498
RT-952	7517905-61002	TCAS 1500 Computer (TCAS I), 4 MCU with internal cooling fan	$36,500
XS-950	7517800-10002	Air Transport Datalink Diversity Mode S Level 4 Transponder, 4 MCU.	$34,827
XS-950	7517800-10003	Air Transport Datalink Diversity Mode S Level 4 Transponder, 4 MCU, ADS-B functionality used on both Boeing and Airbus aircraft.	$34,827
XS-950	7517800-10004	Air Transport Datalink Diversity Mode S Level 4 Transponder, 4 MCU, ADS-B and Change 7 functionality.	$36,827
XS-950SI	7519350-2505x	Military Mode S/IFF Transponder, AC version, interfaces to external KIT 1C crypto device.	$75,193
XS-950SI	7519350-7005x	Military Mode S/IFF Transponder, DC version, interfaces to external KIT 1C crypto device.	$75,193

Table 1 – TCAS Directional Antenna

PART NUMBER	DESCRIPTION
-901	TCAS Directional Antenna, 4 mounting screws, flat base, 1.560" connector extension
-902	TCAS Directional Antenna, 8 mounting screws, flat base, 1.560" connector extension
-903	TCAS Directional Antenna, 8 mounting screws, curved base, 61.25" radius, 1.560" connector extension
-904	TCAS Directional Antenna, 8 mounting screws, curved base, 66.52" radius, 1.560" connector extension
-905	TCAS Directional Antenna, 8 mounting screws, curved base, 74.02" radius, 1.560" connector extension
-906	TCAS Directional Antenna, 8 mounting screws, curved base, 77.78" radius, 1.560" connector extension
-907	TCAS Directional Antenna, 8 mounting screws, curved base, 99.02" radius, 1.560" connector extension
-908	TCAS Directional Antenna, 8 mounting screws, curved base, 111.02" radius, 1.560" connector extension
-909	TCAS Directional Antenna, 8 mounting screws, curved base, 118.52" radius, 1.560" connector extension
-910	TCAS Directional Antenna, 8 mounting screws, flat base, .705" connector extension
-911	TCAS Directional Antenna, 8 mounting screws, curved base, 77.78" radius, .705" connector extension
-912	TCAS Directional Antenna, 8 mounting screws, curved base, 111.02" radius, .705" connector extension
-913	TCAS Directional Antenna, 4 mounting screws, flat base, .705" connector extension
-914	TCAS Directional Antenna, 8 mounting screws, curved base, 53.02" radius, .705" connector extension
-915	TCAS Directional Antenna, 8 mounting screws, curved base, 44.80" radius, .705" connector extension
-916	TCAS Directional Antenna, 8 mounting screws, curved base, 42.0" radius, .705" connector extension
-917	TCAS Directional Antenna, 8 mounting screws, curved base, 85.06" radius, 1.560" connector extension

Installation Considerations

L-3 Communications has available STC data packages for many of the most common aircraft types and models. In addition other STC approvals exist and are available from various modification and completion centers. Please contact L-3 for information about your specific aircraft.

Should your particular aircraft not be covered by an existing installation approval, or other issues arise, L-3 Applications Engineering is available to assist with the installation design and approval process. Our team of experienced engineers can work with your staff, or can perform a “turn key” complete package approval. Please contact L-3 for assistance with your installation.

THIRD PARTY PRODUCTS

Sextant Vertical Speed Indicator / Traffic Display

The Sextant Vertical Speed Indicator / Traffic-Resolution Advisory (VSI/TRA) color display can be purchased through L-3 Communications - Price on Request.

Gables Control Panels

The following contains descriptions and prices of Gables Control Panels which can be purchased through L-3 Communications:

PART NUMBER	DESCRIPTION	UNIT PRICE
G6990-XX	Gables ATC TCAS Control Panel with Keyboard, 115 VAC, dash number (XX) indicates panel configuration and options	$9,569
G6992-XX	Gables ATC TCAS control panel with Knobs, 115 VAC, dash number (XX) indicates panel configuration and options	$8,143
G7130-XX	Gables ATC TCAS Control Panel, 28 VDC, dash number (XX) indicates panel configuration and options	$8,428
G7300-XX	Gables ATC TCAS/IFF Control Panel, 28 VDC	$25,000

Kit Providers

The following kit manufacturers and part numbers are listed below. Additional cable and connector information is available from these kit suppliers please contact them directly or visit their website.

EMTEQ

Electrical and Mechanical Technologies Inc. Mr. Sam Matar, Vice President of Sales
S84 W18693 Enterprise Drive
Muskego, WI 53150

(888) 679-6170
(630) 579-8177 direct
(262) 679-6175 fax
E-mail: smatar@emteq.com
Web: http://www.emteq.com

EMTEG TCAS 2000 Tray Hardware Kit

Description	Part Number
4MCU S/S or S/L tray with 1 ARINC 600 Size 3 connector with either self-locking or torque limiting hold-downs.	ASP-TCAS735-20X

ECS

Electronic Cable Specialists
5300 W. Franklin Drive
Franklin, WI 53132

Mr. Larry Presberg, Sales & Marketing Executive
(800) 327-9473
(414) 421-5300
(414) 421-5301 fax
E-mail: Lpresberg@aol.com

ECS TCAS 2000 Tray Hardware Kit

Description	Part Number
4 MCU S/S tray with 1 ARINC connector Thumbscrew hold-downs	970HQ1-900-102

PUBLICATIONS

The sale of the legacy Honeywell TCAS product line to L-3 Communications was completed on April 28, 2000. This marks the beginning transition for L-3 Communications' Aviation Communications and Surveillance Systems Division. L-3 Communications' surveillance product line includes TCAS computer units, Mode S transponders, antennas, display units, control panels and associated TCAS related hardware.

During this transition period, Honeywell will continue to provide migration and transition of product production and support services to L-3 Communications until April 2002.

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L-3 Communications Technical Publications such as System Description and Installation Manuals, Pilots Manuals, Service Bulletins, Technical Newsletters, and others are listed below. To obtain one of these documents, please place your request by email acss.crc@l-3com.com, listing documents desired.

Here is a list of the publications that are available:

System Description and Installation Manuals

TCAS 2000 System Description and Installation Manual (RCZ-852 "Stand Alone" is also covered in this manual)	A09-3841-001
TCAS 2000 System Description and Installation Manual for Military Applications	A15-3841-009
TCZ-910 TCAS II System Description and Installation Manual (Business Jet, Regional Airline and Helicopter Version)	A15-3840-001
TCAS II System Description and Installation Manual (Air Transport Version)	A15-3841-05
TCAS 1500 System Description and Installation Manual	A09-3841-003
Mode S Data Link Transponder System Description and Installation Manual XS-950	A09-3839-001
Mode S & IFF Data Link Transponder System Description and Installation Manual XS-950 **{Export Restricted}**	A15-3839-001
Mode S System Description and Installation Manual	A15-3834-02

Pilot Manuals

TCAS II (Air Transport Version MOPS 6.04A)	C28-3841-02
TCAS 1500 (TCAS I Manual)	A28-1146-136
TCAS (Business Jet, Regional Airline and Helicopter Version which covers both TCAS II and TCAS 2000 with MOPS 6.04A)	A28-1146-070 (Rev 3 is MOPS 6.04A)
TCAS/ACAS II Change 7 (covers both TCAS II and TCAS 2000)	C28-3841-005

Service Bulletins for Change 7

TCAS 2000 *(Installs software to make box a XX003A)*	C24-3841-029
TCAS II *(Installs mod J which is a hardware/software mod. With software equivalent to XX003A of the TCAS 2000*	C21-3841-028
TCAS 2000 *(Installs software to make box a XX004. Fixes transponder and extended maintenance related issues outlined in TNL L23-3841-002.)*	C24-3841-031
TCAS II *(This is mod k. It installs the same hardware mod as J and puts in the software fix of the TCAS 2000 XX004. The hardware mod portion of the bulletin need only be done if mod J was not performed. The bulletin could be used as a software only bulletin and done on aircraft using a PDL if the hardware portion of mod J was already accomplished. The software portion fixes transponder and extended maintenance related issues outlined in TNL L23-3841-002.)*	C24-3841-030

Technical Newsletters of Recent Interest

Change 7 Summary	C23-9000-040
Detailed Explanations for TCAS Aircraft Not Tracking or Displaying Intruder Aircraft	L23-3841-001
Maintenance/Transponder Related Issues with TCAS 2000 XX003A and TCAs II mod J Change 7 Units.	L23-3841-002

Video

"Clear of Conflict"	VT8350-19 NTSC Format VT8350-20 PAL Format

Computer Based Training (CBT) CD ROM

TCAS 2000 w/change 7 Operations and Maintenance	C03-3841-001

Component Maintenance Manuals

TCAS II Computer RT-910	15-3841-07
Mode S Transponder XS-910	15-3834-03
Dual Mode S Controller CX-910	15-3841-01
VSI/TRA DV-910	15-2254-01
Pressure Transducer Module TD-910	15-3841-06
TCAS 2000 RT-95X	09-3841-002
TCAS 2000 RT-95X Military Version	A09-3841-004
ATDL Mode S XS-950	A09-3839-002
RCZ-852 Stand Alone Mode S	A09-3800-015
Single Mode S Controller	15-3841-03

Internet Web Site

For the latest information on products and support, visit the L-3 Communications Aviation Communications and Surveillance Systems web site located at http://www.l-3com.com/acss/

L-3 SUPPORT CENTERS

L-3 Communications, Aviation Communications & Surveillance Systems Division (ACSSD), is working with Honeywell's Product Support to transition the support for your former Honeywell TCAS and transponder products. During the transition period there are areas of support, which are provided by Honeywell. The transition period may extend through April 2002.

Today, repairs are being conducted by Honeywell Support Centers and L-3 ACSSD authorized facilities.

Ohio Support Center (440) 243-8877
Honeywell Inc
8370 Dow Circle
Strongsville, OH 44136
Attention: Customer Service Representative

British Airways Avionics Engineering (44) 1443 234554
British Airways Avionics Engineering,
Ely Meadow, Talbot Green, Pontyclun,
Mid Glamorgan, CF72 8XL,
South Wales, United Kingdom.
Attention: Customer Service Representative

Air New Zealand Support Center (64) 9 256 3078
Honeywell Limited
c/o Air NZ Engineering Base
Geoffrey Roberts Rd.
Auckland International Airport
Auckland New Zealand
Attention: Customer Service Representative

Change 7 Information

Please contact the previously mentioned Support Centers for Change 7 scheduling. Below are contact people for each Support Center.

Ohio Support Center (440) 243-8877
Rowan Rodgers, backups are Brian Atkinson or Lynda Rhodes

British Airways Avionics Engineering (44) 1443 234554
Sarah Price

Air New Zealand Support Center (64) 9 256 3078
Brent Foote

POLICY

Prices are valid for orders placed anytime from January 1, 2001 through December 31, 2001 with scheduled deliveries prior to April 1, 2002.

All material listed in this Price Catalog will be packaged in accordance with ATA Specification 300.

All components that are returned from overseas must be in the original carton and must be clearly marked “Returned American Goods” both on the outside of the parcel and on all shipping documents. For smaller components, air parcel post is the recommended method of returning units.

All customer returns must be pre-authorized by L-3 Communications contracts department.

The prices listed are F.O.B. factory and are exclusive of all applicable federal, state, and local sales, use and other taxes and duties.

Listed unit weights are for reference only and should not be used for critical measurements. Reference the L-3 Communications ‘Outline and Installation’ Drawings for actual weights.

For shipments to a destination outside the United States, please allow additional time for processing the required paperwork and for shipping.

To comply with the U.S. export regulations, all orders for foreign delivery must identify:

The end user of the item and specific aircraft type;

The end user’s export license number, and the holder of that license for items that require a U.S. Validated Export License;

The ultimate destination for the material ordered; and

The designated freight forwarder.

Orders will be held until the above information is received.

PAYMENT PROCEDURES

If your company has an established account with L-3 Communications, which is not past due, invoices shall be paid in accordance with the terms of the credit agreement. If you have not established credit with L-3 Communications, or your account is past due, shipments will be on credit card, C.O.D. (Collect on Delivery), C.B.D. (Cash Before Delivery) or Wire Transfer basis. Customers paying via wire transfer should process the funds to:

Norwest Bank International, New York, NY
407 Via CHIPS OR 026004077 via FED
Pay L-3 Communications U.I.D. # 259668
Credit Norwest Account # 20-606-408-2100
ABA #26004077

Please indicate which invoice numbers you wish to be cleared with your payment.

All other forms of payment must reference the appropriate invoice number and should be mailed to:
L-3 Communications, Inc.
Commercial Aviation Systems
P.O. Box 92115
Chicago, IL 60675-2115
U.S.A.

Payment made by credit card: Each transaction must identify cardholder, card number, and expiration date.

Payments must be deposited in the appropriate L-3 Communications bank account by the agreed-to payment date. L-3 Communications standard payment terms are Net 30 from shipment.

In the event you refuse to accept a C.O.D. shipment, and the unit is returned to L-3 Communications undelivered, you will be liable for all shipping and restocking costs incurred.

If there are any questions or concerns regarding payment or delays, please contact the account representative listed on your monthly Statement of Account, or contact:

Nancy Garcia
A/R Management
L-3 Communications, Inc.
Commercial Aviation Systems
P.O. Box 21111
Phoenix, AZ 85027

TEL: (620) 436-3371
FAX: (602) 436-1252
SITA: PHXHWCR

New Account:

If you do not currently have an account with L-3 Communications and would like to place orders with L-3 Communications, a Customer Credit Application and End Use/End User Certification form (see following pages) must be completed and mailed or faxed to:

Nancy Garcia
L-3 Communications, Inc.
Commercial Aviation Systems
Credit/Collections Department
P.O. Box 21111
Phoenix, AZ 85027
TEL: (620) 436-3371
FAX: (602) 436-1252

END USE/END USER CERTIFICATION

To: Whom It May Concern:

Re: Compliance with United States Export Regulations

It is L-3 Communication's policy to verify the end use and end user in all sales and repairs of L-3 Communications products and in all transfers of technical data or software to ensure compliance with applicable U.S. export control laws and regulations. Because the products you are purchasing, or software or technology you are licensing, may be exported and used outside of the United States, please confirm the following:

1. I (We) will not export or reexport any L-3 Communications products, technology or software to Cuba, Iran, Iraq, Libya, North Korea, Sudan, or Syria, Federal Republic of Yugoslavia (Serbia), singular entity of Ariana Afghan Airlines or any other country on the US Debarred list, unless otherwise authorized by the United States Government.

2. I (We) will not sell, transfer, export or reexport any L-3 Communications products for use in activities which involve the development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor use L-3 Communications products in any facilities which are engaged in activities relating to such weapons.

3. I (We) acknowledge that U.S. law prohibits the sale, transfer, export or reexport or other participation in any export transaction involving L-3 Communications products with individuals or companies listed in the U.S. Commerce Department's Table of Denial Orders, the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of State's list of individuals debarred from receiving Munitions List items and other applicable lists, i.e. Entity List.

4. I (We) will abide by all applicable U.S. Export control laws and regulations for all products purchased from L-3 Communications and will obtain any licenses or approvals required by the U.S. Government prior to export or re-export of L-3 Communications' products, software or technology.

.....

.....

Signatu re Date

.....

.....

.....

Print Person's Name Company Name

.....

.....

.....

Title Address

Originating L-3 Office: _____ U.S. Federal Tax I.D. # _____

CUSTOMER CREDIT APPLICATION

Please provide the following information to facilitate establishing a business account for use in purchasing L-3 Communications Aviation Communications and Surveillance Systems goods and services:

Please Check One:

Bill to Name_____

_____ Corporation

_____ Partnership

_____ Individual Proprietorship

_____ Other _____ (Describe)

_____

(Street, P.O. Box) Address to which invoices and statement will be sent)

_____

City State Zip Code, Postal Country

Ship to Address: The address to which products will be shipped. **Estimated annual orders:**

_____

(Street Address)

_____

City State Zip Code, Postal Country

_____

Date Business Started Type of Aircraft Owned/Serviced (if applicable) Monthly Line of Credit Requested

Person to contact regarding payment or financial matters; _____

_____

Title Telephone Fax

Sales Tax Exempt: ____ Yes ____ No

If you are Exempt from Tax. Please provide a copy of your Resale Certificate or other Exemption Certificate

Check box if purchases will be made with credit cards. (Do not complete Trade Credit Reference section.)

L-3 Communications accepts the following credit cards: Each transaction must identify CardHolder, Card Number and Expiration Date

VISA MASTER CARD DISCOVER AMERICAN EXPRESS

Trade Credit References (include your primary bank):

1._____

2._____

3._____

ENCLOSE A COPY OF YOUR LATEST FINANCIAL STATEMENT

I/WE WARRANT THE INFORMATION SHOWN ABOVE TO BE TRUE. I/WE AUTHORIZE THE PERSON TO WHOM THIS APPLICATION IS SUBMITTED TO INVESTIGATE THE REFERENCES HEREIN. STATEMENTS, OR OTHER DATA OBTAINED FROM ME/US OR FROM ANY OTHER PERSON PERTAINING TO MY/OUR CREDIT AND FINANCIAL RESPONSIBILITY. I/WE UNDERSTAND ALL COSTS ASSOCIATED WITH COLLECTING PAST DUE ACCOUNT BALANCES INCLUDING COLLECTION AGENCY FEES, IF APPLICABLE, SHALL BE BORNE BY THE PURCHASER.

Signature Title Date

Type or Print Name of Person Signing _____

Please Return Form by Fax to: 602-436-1252 **ATTN: CUSTOMER MASTER FILES**

L-3 Communications, Aviation Communications and Surveillance Systems, ATTN:

UNIFORM SALES AND USE TAX CERTIFICATE MULTIJURISDICTION

Issued to Seller: **L-3 Communications**
PO Box 21111
M/S H16A5
Phoenix, AZ 85036-1111

I HEREBY CERTIFY THAT:

Name of Firm (Buyer): _____ is engaged as a registered:

- Common Carrier _____
- Wholesaler _____
- Retailer _____
- Manufacturer _____
- Lessor _____
- Direct Pay _____
- Other (Specify) _____

Address: _____

_____

_____

and is registered with the below listed states and cities within which your firm would deliver purchases to us and that any such purchases are for wholesale, resale, ingredients or components of a new product to be resold, leased or rented in the normal course of our business. We are in the business of wholesaling, retaining, manufacturing, leasing (renting) the following:

Description of Business: _____

General description of products to be purchased from the seller: _____

AL	_____	MS	_____
AZ	_____	NE	_____
AR	_____	NV	_____
CA	_____	NJ	_____
CO	_____	NM	_____
CT	_____	NY	_____
DC	_____	NC	_____
FL	_____	ND	_____
GA	_____	OH	_____
HI	_____	OK	_____
ID	_____	PA	_____
IL	_____	RI	_____
IN	_____	SC	_____
IA	_____	SD	_____
KS	_____	TN	_____
KY	_____	TX	_____
LA	_____	UT	_____
ME	_____	VT	_____
MD	_____	VA	_____
MA	_____	WA	_____
MI	_____	WV	_____
MN	_____	WI	_____
MO	_____	WY	_____
OTHER	_____	OTHER	_____

I further certify that if any property so purchased tax free is used or consumed by the firm as to make it subject to a Sales and Use Tax we will pay the tax directly to the proper taxing authority when state law so provides or inform the seller for added tax billing. This certificate shall be part of each order, which we may hereafter give to you, unless otherwise specified, and shall be valid until canceled by us in writing or revoked by the city of state.

Under Penalties of perjury, I swear or affirm that the information on this form is true and correct as to every material matter.

Authorized Signature: _____
(Owner Partneror Corporate Officer)

Title: _____

Date: _____

Note: Complete this form only if claiming tax-exempt status or return a copy of your resale certificate with your completed application.

WARRANTY

EFFECTIVE JANUARY 1, 2001

FOR THE EQUIPMENT DESCRIBED HEREIN

L-3 Communications, (herein after referred to as the Seller) warrants that all articles furnished under this order will conform to applicable specifications and drawings, and be free from defects, in material and workmanship. The Seller's obligation under this warranty, however, is limited to repairing of, or, at the Seller's option, replacing any article or part that is returned, transportation prepaid, to any of its service stations or factories by the Buyer or Buyer's customer, subject to the provisions of paragraph (2).

The warranty shall be applicable to those verified defects or failures [as described in paragraph (1)] that may become apparent thirty-six (36) months after delivery of the products by the Seller to the Buyer, or within twelve (12) months after final delivery of the product to the Buyer's customer, whichever of the events first occurs. Notice of the alleged defect or failure shall be given to the Seller by the Buyer, or Buyer's customer, within thirty (30) days after such defect or failure becomes apparent. This warranty will be in effect to the registered owner upon receipt by the Seller of a completed Warranty Application (Form 11709-00).

Extended warranty services are available upon request from your marketing representative.

EXCEPT FOR A WARRANTY OF TITLE AND THE WARRANTY SET FORTH IN PARAGRAPHS (1) AND (2) ABOVE, NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, SHALL APPLY TO THE ARTICLES FURNISHED HEREUNDER; AND THE SELLER SHALL HAVE NO OTHER OBLIGATION OR LIABILITY, WHETHER UNDER THIS ORDER OR OTHERWISE, ON ACCOUNT OF SUCH ARTICLES. In no event shall the Seller be liable for loss of use or for incidental, indirect, or consequential damages.