

**AMENDMENT NO. 3 TO THE AGREEMENT
BETWEEN THE COUNTY OF SAN MATEO AND AVIAT U.S., INC.**

THIS AMENDMENT TO THE AGREEMENT, entered into this _____ day of _____ 2025, by and between the COUNTY OF SAN MATEO, hereinafter called "County," and AVIAT U.S., INC., hereinafter called "Contractor";

W I T N E S S E T H:

WHEREAS, pursuant to Government Code, Section 31000, County may contract with independent contractors for the furnishing of such services to or for County or any Department thereof;

WHEREAS, on September 13, 2022, the parties entered into an agreement to provide services to engineer and implement the Microwave System Upgrade Project for the term of September 13, 2022, through September 12, 2025, for a total amount not to exceed \$6,451,432; and

WHEREAS, on May 25, 2023, the parties executed the first Amendment to update the milestones and corresponding payment schedule outlined in the agreement; and

WHEREAS, on October 17, 2023, the parties executed the second Amendment to include additional services, increasing the agreement amount by \$753,584.51, for a total amount not to exceed \$7,205,016.51; and

WHEREAS, both parties wish to further amend the agreement to incorporate the following critical services: field changes, extension of secured storage duration, installation of an antenna pipe mount solution at Huddart Park, reconfiguration of the Digital Access Cross-connect System (DACS), dedicated maintenance training, and additional critical equipment, namely stiff arms, radio shop link, and Multiprotocol Label Switching (MPLS) routers, to extend the term through December 31, 2025, and to increase the agreement amount by \$765,145, for a total amount not to exceed \$7,970,161.51.

NOW, THEREFORE, IT IS HEREBY AGREED BY THE PARTIES HERETO AS FOLLOWS:

1. Section 3, Payments of the agreement is hereby amended to read as follows:
In consideration of the services provided by Contractor in accordance with all terms, conditions, and specifications set forth in this Agreement and in Revised Exhibit A (Rev. 09/12/23), County shall make payment to Contractor based on the rates and in the manner specified in Revised Exhibit B (Rev. 02/24/25). County reserves the right to

withhold payment if County determines that the quantity or quality of the work performed is unacceptable and written notification has been communicated to Contractor. In no event shall County's total fiscal obligation under this Agreement exceed **SEVEN MILLION NINE HUNDRED SEVENTY THOUSAND ONE HUNDRED SIXTY-ONE DOLLARS AND FIFTY-ONE CENTS (\$7,970,161.51)**. In the event that the County makes any advance payments, Contractor agrees to refund any amounts in excess of the amount owed by the County at the time of contract termination or expiration. Contractor is not entitled to payment for work not performed as required by this agreement.

2. Section 4, Term of the agreement is hereby amended to read as follows:
Subject to compliance with all terms and conditions, the term of this Agreement shall be from September 13, 2022, through December 31, 2025.
3. Exhibit A1- Critical Services is hereby added as a new section to Revised Exhibit A (Rev. 09/12/23) a copy of which is attached hereto as Exhibit A1- Critical Services and incorporated into the agreement by this reference.
4. Revised Exhibit B (Rev. 09/12/23) is hereby replaced in its entirety with Revised Exhibit B (Rev. 02/24/25) a copy of which is attached hereto and incorporated into the agreement by this reference.
5. Revised Exhibit D (Rev. 09/12/23) is hereby amended to read as follows:
County of San Mateo Contract Menu Pricing for Services. The pricing is valid from September 13, 2022, through December 31, 2025.
6. **All other terms and conditions of the agreement between the County and Contractor, dated September 13, 2022, as previously amended, shall remain in full force and effect.**

In witness of and in agreement with this Agreement's terms, the parties, by their duly authorized representatives, affix their respective signatures:

FOR CONTRACTOR: AVIAT U.S., INC.

Signed by:
William Hauze
31834E9299E340B
Contractor Signature

04-Mar-25
Date

William Hauze, VP Finance
Contractor Name (please print)

COUNTY OF SAN MATEO

By: Resolution No.
President, Board of Supervisors, San Mateo County

Date:

ATTEST:

By:
Clerk of Said Board

Exhibit A1
CRITICAL SERVICES

Contractor shall provide the following critical services:

1. Field Changes

1.1 Radio Deliveries Support

- Aligning radio equipment deliveries with County personnel availability to optimize the deployment schedule.

1.2 Foster City Face Mount Installation and Antenna Relocation

- Remobilizing installation crews, conducting a path study, installing a face mount, relocating the San Mateo Medical Center antenna, and addressing alignment and testing challenges to resolve obstructions in the path to the Hall of Justice.

1.3 San Bruno Nike Antenna Relocation and Decommissioning

- Removing obsolete antennas and relocating equipment due to unanticipated obstructions and revised site requirements.

1.4 Crew Mobilization and Schedule Adjustment for San Carlos and East Palo Alto

- Adjusting crew schedules to meet evolving site needs while minimizing downtime

1.5 San Carlos Antenna Decommissioning and Relocation

- Removing and relocating antennas to create space for new installations.

1.6 East Palo Alto Whip Antenna Relocation

- Relocating whip antennas to accommodate new installations at the site.

1.7 Skylawn Site Evaluation and Dish Installation Adjustment

- Ensuring optimal placement and functionality of dish installations through site evaluations and adjustments.

1.8 North Peak Antenna Decommissioning

- Decommissioning additional antennas to make space for critical new equipment.

2. Extension of Secure Storage Duration

- Provide additional three months of secure storage for the microwave equipment.

3. Installation of Antenna Pipe Mount Solution at Huddart Park

- Services are required to resolve structural issues identified in the building housing the legacy microwave equipment at Huddart Park, which is planned for reuse. The blocking under two legs of the existing antenna has rotted, much of the roofing material is missing, creating gaps under the tripod feet, and the roof has several holes. Additionally, the current tripod installation is misaligned with the support beams and will need to be realigned for proper functionality.
- Instead of repairing the roof, the proposed solution is to install a

new pipe mast on the backside of the building to mount the new microwave antenna. The waveguide will be routed under the eaves and through the chimney to the equipment room, ensuring a stable and durable installation.

4. Additional Stiff Arms

- Address alignment issues caused by high winds. During winter 2024, several microwave paths were knocked out of alignment, highlighting the vulnerability to high-wind events.
- To mitigate the risk, 20 additional stiff arms will be provided on 4' microwave antennas at main loop sites. These stiff arms will improve stability and reduce the likelihood of alignment issues during high-wind conditions.

5. Radio Shop Link

- Install a microwave antenna at the San Mateo County Radio Shop to establish a link with the County Office Building 2 (COB2) site, ensuring connectivity to the new microwave backhaul.
- Repurpose microwave radio equipment and an antenna initially allocated for the Mission Court to San Bruno Mountain link, which is no longer needed.
- Provide additional materials, including a new non-penetrating roof mount to position the microwave antenna at the Radio Shop for alignment with COB2.
- Provide and install 150 feet of 18 GHz elliptical waveguide to connect the COB2 rooftop antenna to the microwave radio housed in the COB2 equipment room.

6. Multiprotocol Label Switching (MPLS) Routers

- Install additional MPLS routers at various sites to ensure compatibility with the upcoming Motorola Solutions, Inc. (Motorola) radio system software update, which is critical for the public safety radio system used by the County of San Mateo and its partner agencies.
- Following a technical review with Motorola, it was determined that all sites within the Motorola system must be equipped with MPLS, as hybrid configurations will no longer be supported.
- This requirement affects several dispatch sites not previously included in the microwave upgrade project, necessitating the installation of Aviat CTR 8700 Series R3 MPLS routers to maintain system uniformity.
- The affected sites include the Regional Operations Center, Maple Street Jail Dispatch, Maguire Correctional Facility, Gang Task Force, SamTrans Brewster, SamTrans Cub, and Burlingame Fire Dispatch.
- Provide and install the required MPLS routers at these locations to ensure full compatibility with future Motorola software updates.

7. Dedicated Maintenance Training

- Provide dedicated maintenance training to equip San Mateo County radio personnel to serve as the first line of support for maintenance issues related to new microwave equipment,

addressing recent personnel and role changes

- Conduct a five-day on-site workshop, customized for the County, covering topics including Aviat Eclipse, CTR8740, ProVision, and ProVision Plus products.

8. Reconfiguration of the Digital Access and Cross-connect System (DACS)

8.1 Core Services

- **Technical Evaluation:** Conducting an in-depth assessment of the existing DACS infrastructure to identify areas for improvement and ensure compatibility with new configurations.
- **Method of Procedure (MOP):** Developing a detailed MOP to guide the DACS reconfiguration process, ensuring all steps are clearly defined and efficiently executed.
- **Testing Procedures:** Designing and implementing robust testing protocols to validate the effectiveness and reliability of the reconfigured system.
- **Network Design Engineer Services:** Engaging expert engineers to develop and implement network testing and integration.
- **Configuration Engineering Services:** Configuring the DACS to meet new specifications and requirements.
- **Program Management Support:** Overseeing the project to ensure timely, budget-conscious, and technically sound execution.
- **Project Engineering Services:** Coordinating technical aspects of the reconfiguration and ensuring successful delivery.

8.2 Onsite Support

- Two network engineers will be deployed onsite for four weeks to focus on reconfiguration, testing, and acceptance phases, ensuring a smooth transition and operational excellence.
- **Expanded Scope of Work:**
 - **T1 Migration:** Migrating all T1 connections associated with the DACS and Channel Bank within the County system, excluding Motorola site router connections that have transitioned to Ethernet payloads.
 - **County Coordination:** The County will arrange maintenance windows, provide escorts, and support during the cutover.
 - **Traffic Impact and Maintenance Window:** Traffic disruptions are anticipated during the T1 and DACS circuit migration, necessitating a designated maintenance window.
 - **Pre-Migration Preparation:** The County must provide a verified list of T1 lines, DSO cross-connects, and DSX Jackfield connections, which will be reviewed collaboratively with the contractor.
 - **Migration Plan and Design:** Developing a comprehensive migration plan and design for review and approval prior to cutover.
 - **Best-Effort Migration:** Conducting the migration on a

best-effort basis, with an emphasis on minimizing downtime.

- Migration Timeline: Completing the migration within one contiguous month, with uninterrupted progress once initiated. Two field engineers will provide onsite support. If additional time is required beyond the proposed schedule, a change order will be necessary.
- DCB Engineering Collaboration: A DCB engineer will assist with configuring DACS cross-connects and audio settings.
- DACS and Audio Bridge Migration: Migrating DACS circuits and audio bridges within one contiguous week, supported by a DCB field engineer onsite at COB2. Up to three additional days are included, with further extensions requiring a change order.

9. As-Needed Services

County may request the Contractor's assistance to address necessary changes, mitigate risks, and enhance the long-term reliability of the County's public communications infrastructure. These services shall be provided on an as-needed basis.

- Provide on-demand subject matter expertise, consulting, project management services, and additional resources/roles, and other services as required.
- County reserves the right to request replacements for the Contractor's resources when necessary.
- All requests for as-needed services shall be made in writing, with written concurrence from the Contractor before services are provided.

Revised Exhibit B (Rev. 02/24/25)

PAYMENTS, RATES, AND INVOICING

In consideration of the services provided by Contractor described in Revised Exhibit A (Rev. 09/12/23) and subject to the terms of the Agreement, County shall pay Contractor based on the following fee schedule and terms:

<u>Milestone Description</u>	<u>Amount</u>
Milestone 1: Path and Site Surveys and 20% of Radio Equipment	\$633,734.28
Milestone 2: Design Freeze and 25% of Radio Equipment	\$638,407.43
Milestone 3: Product Training	\$42,375.00
Milestone 4: Completion of Shipment of all Equipment, Confirmation of Receipt of all Equipment, and Successful Factory Testing of all Equipment	\$3,635,334.65
Milestone 5: Installation of Radios on the Ring	\$798,024.90
Milestone 6: Installation of Spur Radio Links	\$988,505.05
Milestone 7: System Acceptance	\$468,635.20
GRAND TOTAL	\$7,205,016.51

Critical Services

<u>Critical Services Milestone Description</u>	<u>Amount</u>
Milestone 1: Field Changes <ul style="list-style-type: none"> • Radio Deliveries Support: \$13,585.00 • Foster City Face Mount Installation and Antenna Relocation: \$19,805.50 • San Bruno Nike Antenna Relocation and Decommissioning: \$1,430.00 • Crew Mobilization and Schedule Adjustment for San Carlos and East Palo Alto: \$2,145.00 • San Carlos Antenna Decommissioning and Relocation: \$5,362.50 • East Palo Alto Whip Antenna Relocation: \$1,072.50 • Skylawn Site Evaluation and Dish Installation Adjustment: \$2,145.00 • North Peak Antenna Decommissioning: \$1,930.50 	\$47,476.00
Milestone 2: Extension of Secure Storage Duration	\$31,185.00
Milestone 3: Installation of Antenna Pipe Mount Solution at Huddart Park	\$30,140.00
Milestone 4: Additional Stiff Arms	\$17,864.00
Milestone 5: Radio Shop Link	\$7,362.00
Milestone 6: MPLS Routers	\$271,202.00
Milestone 7: Dedicated Maintenance Training	\$22,117.00
Milestone 8: Reconfiguration of DACS	\$319,494.00
Milestone 9: As-Needed Services	\$18,305.00
GRAND TOTAL	\$765,145.00

Total Not to Exceed Amount for this Agreement is \$7,970,161.51

INVOICING

Contractor shall request approval via email from the County's designated Project Manager (PM) by submitting a Milestone Completion Certificate. This certificate shall indicate the services and milestones completed as outlined in the Agreement. Upon receipt of email approval, Contractor shall submit an invoice along with the Approved Milestone Completion Certificate.

For As-Needed Services

For As-Needed Services, Contractor shall submit invoices on a monthly basis. Prior to submitting the invoices, Contractor shall request email approval/confirmation via email from the County's designated PM for the services provided, as documented in the Contractor's resource's monthly time report. Upon receipt of email approval, Contractor shall submit the invoices along with the PM's email confirmation.

Contractor's resource's monthly time report must include the following information, at a minimum:

- Total Hours Worked
- Bill Rate and Total Billed Amount
- Description of tasks/work performed

Additionally, County may require Contractor's resource(s) to track time in the County's time tracking system.

Invoice Submission Requirements

Each invoice submitted shall include, at a minimum, the following information:

- Invoice Number and Date
- Agreement Number and/or Purchase Order Number
- Detailed statement of actual services
- Breakdown of labor, materials, and taxes (when applicable)
- Total amount of invoice

Invoices must be sent to JSD-Vendor-Invoices@smcgov.org. Processing time may be delayed if invoices are not submitted electronically or without email approval/confirmation (Approved Milestone Completion Certificate or Approved Monthly Time Report) from designated County PM.

The County shall submit payment within net thirty (30) days of receipt of invoice, for services rendered conditioned upon the approval of services performed during the billing cycle.

BREAKDOWN OF MILESTONES				SYSTEM		SYSTEM		SYSTEM		633,734.28	638,407.43	63,038.00	3,165,494.65	798,024.90	795,250.95	357,480.80	6,451,432.00
Partial Release Completed	EQUIPMENT LIST	PRODUCT CODE	UNIT	QTY	PRICE	QTY	PRICE	QTY	PRICE								
ITEM	DESCRIPTION	PART NUMBER	PRICE	Revised Design		Contract		Delta (Revised - Contract)		Milestone 1: Path and Site Surveys + 20% Radio Equipment	Milestone 2: Design Freeze + 25% Radio Equipment	Milestone 3: Aviat Product Training	Milestone 4: Successful Factory Testing & Shipment of Equipment	Milestone 5: Installation of all Radios on the Ring	Milestone 6: Installation of Spur Radio Links	Milestone 7: Upon system acceptance	Balance
1.0020	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP4-HP 5.8 U6 GHz, Filter-non ACCP	EV205-AMT-AM0-410000	12,654.00	2	50,616.00	2	50,616.00	0	-	10,123.20	12,654.00	-	27,838.80	-	-	-	-
1.0030	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP U6 GHz, Filter-non ACCP	EV205-AEU-AEB-410000	17,848.00	2	35,696.00	2	35,696.00	0	-	7,138.20	8,924.00	-	19,632.80	-	-	-	-
1.0040	IRU600v4 RFSEC ASSY NP IF TR EHP 11 GHz, Filter-non ACCP	EV202-AEB-000-410000	10,016.00	3	30,048.00	3	30,048.00	0	-	6,009.60	7,512.00	-	16,526.40	-	-	-	-
1.0050	IRU600v4 RFSEC ASSY NP IF TR EHP 11 GHz, Filter-non ACCP, 80 MHz	EV202-AEB-000-418000	10,405.00	2	10,405.00	2	10,405.00	0	-	2,081.00	2,601.25	-	5,722.75	-	-	-	-
1.0060	IRU600v4 RFSEC ASSY MHSBSD TX SWITCH, IF TR SP4-HP 10.5-11 GHz, Filter-non ACCP	EV207-AMC-AM0-410000	13,221.00	2	26,442.00	2	52,884.00	-	(26,442.00)	10,576.80	13,221.00	-	2,644.20	-	-	-	-
1.0070	IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP	EV205-AEB-AEB-410100	18,985.00	2	37,970.00	2	37,970.00	0	-	7,594.00	9,492.50	-	20,883.50	-	-	-	-
1.0080	IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP	EV205-AEB-AEB-418180	19,763.00	2	39,526.00	2	39,526.00	0	-	7,905.20	9,881.50	-	21,738.30	-	-	-	-
1.0090	IRU600v4 RFSEC ASSY 1+0 REPEATER, IF TR EHP 11 GHz, Filter-non ACCP, 80MHz	EV205-AEB-AEB-418100	19,374.00	3	58,122.00	3	58,122.00	0	-	11,624.40	14,530.50	-	31,867.10	-	-	-	-
1.0100	MHSB rx assy 11 GHz		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0110	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP4-HP 10.5-11 GHz, Filter-non ACCP	EV206-AMC-AM0-410000	12,654.00	2	253,734.00	2	253,734.00	0	-	53,146.80	66,433.50	-	146,153.70	-	-	-	-
1.0111	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR SP4-HP 10.5-11 GHz, Filter-non ACCP	EV206-AMC-AM0-410000	44,599.00	1	44,599.00	1	44,599.00	0	-	-	-	-	-	-	-	-	-
1.0120	IRU600v4 RFSEC ASSY MHSB RX UNEQUAL SPLIT, IF TR EHP 11 GHz, Filter-non ACCP	EV206-AEB-AEB-410000	17,848.00	4	107,088.00	4	71,392.00	-	35,696.00	14,278.40	17,848.00	-	74,961.60	-	-	-	-
1.0130	Waveguide extension Kits 6 GHz		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0140	WG EXT KIT IRU600 V3 6GHZ SH1-PO1, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-AA101	355.00	2	1,065.00	2	1,420.00	-	(355.00)	284.00	355.00	-	426.00	-	-	-	-
1.0150	WG EXT KIT IRU600 V3 6GHZ SH2-PO2, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-BB201	1,021.00	2	2,042.00	2	1,021.00	-	1,021.00	204.20	255.25	-	1,582.55	-	-	-	-
1.0160	WG EXT KIT IRU600 V3 6GHZ SH3-PO3, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-CC301	1,378.00	2	1,378.00	2	1,378.00	0	-	275.30	344.75	-	758.45	-	-	-	-
1.0170	WG EXT KIT IRU600 V3 6GHZ SH4-PO4, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-DD401	1,443.00	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0180	Waveguide extension Kits 11 GHz		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0190	WG EXT KIT IRU600 V3 11GHZ SH1-PO1, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-AA121	312.00	2	7,176.00	2	6,864.00	-	312.00	1,372.80	1,716.00	-	4,067.20	-	-	-	-
1.0200	WG EXT KIT IRU600 V3 11GHZ SH1-PO1, 2+0FD, RPTR (RPTR)	178-530135-AA122	312.00	2	2,184.00	2	2,496.00	-	(312.00)	499.20	624.00	-	1,060.80	-	-	-	-
1.0210	WG EXT KIT IRU600 V3 11GHZ SH2-PO2, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-BB221	1,066.00	2	8,528.00	2	7,462.00	-	1,066.00	1,492.40	1,865.50	-	5,170.10	-	-	-	-
1.0220	WG EXT KIT IRU600 V3 11GHZ SH3-PO3, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-CC321	1,371.00	2	5,484.00	2	8,226.00	-	(2,742.00)	1,645.20	2,056.50	-	1,782.30	-	-	-	-
1.0230	WG EXT KIT IRU600 V3 11GHZ SH4-PO4, 1+0MHSB 1ANT, RPTRM(AN)	178-530135-DD421	1,363.00	2	4,179.00	2	4,179.00	0	-	835.80	1,044.75	-	2,298.45	-	-	-	-
1.0240	WG EXT KIT IRU600 V3 11GHZ SH2-PO2, 1+0MHSB 2 ANT, MHSBSD	178-530135-BB223	1,770.00	1	1,770.00	1	1,770.00	0	-	354.00	442.50	-	973.50	-	-	-	-
1.0250	WG EXT KIT IRU600 V3 11GHZ SH1-PO1, 1+0MHSB 2 ANT, MHSBSD	178-530135-AA123	734.00	2	1,468.00	2	734.00	-	734.00	146.80	183.50	-	1,137.70	-	-	-	-
1.0260	Waveguide extension bracket		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0270	EXT BRKT KIT IRU600 2 SHELF (178-530085-001_REV002)	178-530085-001	197.00	4	985.00	4	197.00	-	788.00	39.40	49.25	-	86.65	-	-	-	-
1.0280	EXT BRKT KIT IRU600 3 SHELF (178-530085-002_REV002)	178-530085-002	384.00	2	1,182.00	2	1,576.00	-	(394.00)	315.20	384.00	-	472.80	-	-	-	-
1.0290	EXT BRKT KIT IRU600 4 SHELF (178-530085-003_REV002)	178-530085-003	551.00	2	1,773.00	2	2,956.00	-	(1,183.00)	581.00	738.75	-	441.25	-	-	-	-
1.0300	11 GHz outdoor radio COU 600v2		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0320	CDU 600v2 11 GHz	M-ECH-11	2,987.00	6	17,922.00	6	17,922.00	0	-	3,584.40	4,480.50	-	9,857.10	-	-	-	-
1.0330	Duplex Assy CDU 600v2, 10/11 GHz Unequal 6 dB, V and H Pole 84005(11H)	086-523300-116	248.00	3	744.00	3	744.00	0	-	148.80	186.00	-	409.20	-	-	-	-
1.0340	ROD RADIO ODU600v2 10/11 GHz Waveguide Transition Kit, WR 90 waveguide UDR 100 flange	178-530200-911	79.00	1	79.00	3	237.00	-	(158.00)	47.40	59.25	-	(27.65)	-	-	-	-
1.0350	Remote Mount Bracket Assembly, ODU600v2	178-530500-201	58.00	1	58.00	3	174.00	-	(116.00)	34.80	43.60	-	(20.30)	-	-	-	-
1.0360	FLEXIBLE WAVEGUIDE, 10 - 11.7 GHz, 900 MM, PDR100 FLANGES	086-119100-900	92.00	1	92.00	3	276.00	-	(184.00)	55.20	69.00	-	(32.20)	-	-	-	-
1.0370	11 GHz outdoor radio COU 600v2		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0380	18 GHz outdoor radio COU 600v2		-	0	-	0	-	0	-	-	-	-	-	-	-	-	-
1.0390	CDU 600v2 18 GHz	M-ECH-18	2,987.00	32	95,584.00	32	95,584.00	0	-	19,116.80	23,896.00	-	52,571.20	-	-	-	-
1.0400	Duplex Assy CDU 600v2, 18 GHz Unequal 6 dB, V and H Pole 84005(9H)	086-523300-186	264.00	16	4,224.00	16	4,224.00	0	-	844.80	1,056.00	-	2,323.20	-	-	-	-
1.0410	Waveguide UBR200 flange	178-530200-018	81.00	16	1,296.00	16	1,296.00	0	-	256.20	324.00	-	712.80	-	-	-	-
1.0420	WRAPPER W184000 & CDU600v2 RACK MOUNT	072-910200-001	238.00	15	4,203.00	15	4,203.00	-	856.00	852.80	1,068.00	-	3,003.20	-	-	-	-
1.0430	WG EXY KIT COU600 WRAPPER #1	178-530166-131	1,004.00	10	10,040.00	11	11,044.00	-	(1,004.00)	2,208.80	2,761.00	-	5,070.20	-	-	-	-

1.0440	WG EXT KIT ODU800 WRAPPER #2	179-530166-211	1,256.00	0	-	-	3,768.00	-	(3,768.00)	753.60	942.00	-	(1,695.60)	-	-	-	-
1.0450	WG EXT KIT ODU800 WRAPPER #3	179-530166-311	1,915.00	0	-	-	3,830.00	-	(3,830.00)	766.00	957.50	-	(1,723.50)	-	-	-	-
1.0460	NP to MHSB		-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	IRU600V4 ACU MHSB RX UNEQUAL SPLIT 5.846 GHz, Filter-non	ET206-T2-410000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.0470	ACCP		1,453.00	-	5,812.00	-	5,812.00	-	-	1,182.40	1,453.00	-	3,196.60	-	-	-	-
1.0480	RPU, EHP, IRU600/4 IF TR, US GHz, 6400-7125 MHz	ERE-AUE-401	7,467.00	-	29,888.00	-	29,888.00	-	-	5,973.60	7,467.00	-	16,427.40	-	-	-	-
1.0490	Mts B, 11 and 18 GHz Mts		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.0500	WG EXT KIT ODU800 WRAPPER #2	179-530166-231	1,256.00	0	-	-	3,768.00	-	(3,768.00)	-	-	-	-	-	-	-	-
1.0505	EXT BRKT KIT one bracket for each ODU wrapper	179-530089-001	-	18	-	-	-	18	-	-	-	-	-	-	-	-	-
1.0510	WG EXT KIT ODU800 WRAPPER #3	179-530166-331	1,915.00	2	3,830.00	-	-	-	3,830.00	-	-	-	3,830.00	-	-	-	-
1.0520	WG EXT KIT IRU600 V3 11GHz SH3-PC3, 1+0MHSB 2 ANT, MHSB/SD	179-530135-02323	2,594.00	-	-	-	-	-	-	2,594.00	-	-	2,594.00	-	-	-	-
	IRU600V4 RFSEC ASSY MHSB/SD TX SWTCH, IF TR EHP 11 GHz		-	-	38,946.00	-	-	-	38,946.00	-	-	-	38,946.00	-	-	-	-
1.0530	Fiber Opt ACCP	EV207-4ED-4EAF-410000	19,473.00	3	5,871.00	-	-	-	5,871.00	-	-	-	5,871.00	-	-	-	-
1.0540	ADAPTER, N-MALE TO N-MALE	018-501627-001	5.00	3	170.00	-	-	-	170.00	-	-	-	170.00	-	-	-	-
2.0000	Eclipse Indoor Unit and Data Cards		-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0010	IN/LE		-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	ECLIPSE, INTELLIGENT NODE UNIT 2RU, INC IDCE, FAN, NCCV3,		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0020	HIGH OUTPUT	EXX-000-205	1,039.00	6	62,340.00	-	62,340.00	-	-	12,468.00	15,585.00	-	34,267.00	-	-	-	-
2.0030	NOISE PROTECTION CARD, HIGH OUTPUT	EXS-002	230.00	6	13,800.00	-	13,800.00	-	-	2,760.00	3,450.00	-	7,590.00	-	-	-	-
2.0040	KIT BRACKET 2RU	179-530094-001	10.00	6	60.00	-	60.00	-	-	120.00	150.00	-	330.00	-	-	-	-
2.0050	Rac Card		-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0060	RAC 70v2, GFSK-4096QAM, NO XPR, ACM	EXR-100-002	846.00	139	89,424.00	-	89,424.00	-	-	5,184.00	16,848.00	-	21,060.00	-	-	-	-
2.0070	Aux Card and Cables		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0080	AUX ALARM IC CARD	EXA-001	205.00	3	7,511.00	-	7,511.00	-	-	1,502.20	1,877.70	-	4,131.00	-	-	-	-
2.0090	ALARM IO HD16 10M WIREWRAP	037-678315-001	50.00	3	2,072.00	-	2,072.00	-	-	414.40	518.00	-	1,139.60	-	-	-	-
2.0100	M99 Pump-Down Block Kit	179-530132-001	50.00	3	2,183.00	-	2,183.00	-	-	436.60	545.75	-	1,200.65	-	-	-	-
2.0110	Ethernet Card and Cables		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0120	DAC GEG Q3AB1 ETHERNET SWITCH CARD	EXD-161-002	731.00	11	81,141.00	-	78,948.00	-	2,193.00	15,789.60	19,737.00	-	45,614.40	-	-	-	-
2.0130	CABLE PROT / BRIDGE/GE3, DIRECT FIT, 500mm	037-678461-500	55.00	48	2,640.00	-	2,640.00	-	55.00	517.00	646.25	-	1,476.75	-	-	-	-
2.0140	QIG ETH SFP, OPT MMF 850nm LC 1000BASE-SX, +550M (M28-318T24) (optional)	078-422662-001	51.00	1	51.00	-	51.00	-	-	-	-	-	51.00	-	-	-	-
2.0150	KCVR ELECTRICAL GIGE SFP W/LOS 3V3 COM1 2 per card	083-646434-001	86.00	12	1,032.00	-	1,032.00	-	288.00	2,167.20	2,709.00	-	6,217.80	-	-	-	-
2.0160	SFP OPT GIGE 10.30nm SMF LC 10KM 0 to 70C	078-422662-001	56.00	2	232.00	-	232.00	-	-	232.00	232.00	-	232.00	-	-	-	-
2.0170	NETWORK CONVERGENCE MODULE (NCM)	EXD-503-002	374.00	16	25,824.00	-	15,584.00	-	10,240.00	3,116.80	3,898.00	-	16,311.20	-	-	-	-
2.0180	CM LOOP SWITCH License to support up to 50E1/63T1 TDM circuits	EZF-14	4,870.00	13	63,310.00	-	77,920.00	-	(14,610.00)	15,584.00	19,480.00	-	26,246.00	-	-	-	-
2.0190	3m Protected DS3 Card and Cables		0	0	0	-	0	-	0	-	-	-	0	-	-	-	-
2.0200	ECLIPSE, DAC 16XE1/DS1 V3, PROTECTABLE	EXD-161-002	256.00	107	27,392.00	-	10,496.00	-	66	16,896.00	2,099.20	-	22,668.80	-	-	-	-
2.0210	HDR-ESD TO 24AWG FREE END 3M	037-678418-003	97.00	0	-	-	56	5,432.00	-	(5,432.00)	-	-	-	-	-	-	-
2.0210	X HDR-ESD TO 7 OHM TO 24AWG FREE END 3.5M	037-678408-003	237.00	116	27,492.00	-	-	-	116	27,492.00	1,066.40	-	1,368.00	-	-	-	-
2.0220	3m DS3 Mux Card to interconnect loop IN/LE to Spurt IN/LE on rings		0	0	0	-	0	-	0	-	-	-	0	-	-	-	-
2.0230	AC 3WE3/DS3 MUXED TO E1/DS1 BUS	EXD-331-001	373.00	0	-	-	20	7,460.00	-	(7,460.00)	1,492.00	-	1,865.00	-	-	-	-
2.0240	CABLE TRB E3/DS3 UNBALANCED SUM-LINE BNC TO SUM-LINE INC. 5 METERS	037-678249-001	35.00	0	-	-	40	1,400.00	-	(1,400.00)	280.00	-	350.00	-	-	-	-
2.0250	3m protected DS3 Mux Card to interconnect loop IN/LE		-	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0260	AC 155mV3, 1XSTM1/OC3 MUXED TO E3E1/4DS1, OPTICAL (NO	EXD-155-001	1,000.00	24	24,000.00	-	24,000.00	-	0	4,800.00	6,000.00	-	13,200.00	-	-	-	-
2.0281	SFP OPT STM-1/OC3 1310nm SMF LC 15km to 70C	078-422667-001	-	24	-	-	24	-	-	-	-	-	-	-	-	-	-
2.0270	IMPL EX 3M SW LC TO LC (037-678131-001 REV004)	037-678131-001	11.00	26	286.00	-	48	528.00	-	(242.00)	105.60	-	132.00	-	-	-	-
2.0280	M99 EX 10M SW LC TO LC (037-678131-001 REV S1)	037-678131-001	13.00	8	104.00	-	-	-	8	104.00	-	-	104.00	-	-	-	-
2.0290	KCVR OPT MULTIMODE SFP 3V3, 850 nm, 125 Mbps Fast Ethernet (M28-A35T2C)	078-422661-001	85.00	0	-	-	0	-	-	-	-	-	0	-	-	-	-
2.0300	CABLE OPTICAL IMPR, LC-SC, SMA-DUP, 9125UM, 10M/32.9FT (203 3700-010/3M)	LOC-203-3700-010/3M	22.00	8	176.00	-	-	-	8	176.00	-	-	176.00	-	-	-	-
2.0310	Software and Licenses		-	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0320	IRU 600 High power license		-	-	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0330	IRU600 600 High power option 1 x RFU	EZF-61	974.00	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0340	IRU600 600 Nodal High power option 2 x RFU	EZF-62	1,948.00	0	5,844.00	-	11,688.00	-	(5,844.00)	2,337.60	2,922.00	-	584.40	-	-	-	-
2.0350	IRU600 600 Nodal High power option 4 x RFU	EZF-64	3,896.00	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0360	ODU 600 High power license		-	-	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0370	ODU 600 Nodal High power option 2 x ODU	EZF-63	974.00	10	9,740.00	-	11	9,740.00	-	1,948.00	2,435.00	-	5,357.00	-	-	-	-
2.0380	ODU 600 Nodal High power option 4 x ODU	EZF-64	1,948.00	0	5,844.00	-	3	5,844.00	-	1,168.80	1,461.00	-	3,214.20	-	-	-	-
2.0400	Capacity License		-	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0410	60 Mbps Node radio capacity license	EZE-0801	98.00	2	2,842.00	-	2	2,842.00	-	568.40	710.50	-	1,563.10	-	-	-	-
2.0420	NODE SW LICENSE, 100 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-0802	406.00	1	4,466.00	-	1	4,466.00	-	893.20	1,116.50	-	2,456.30	-	-	-	-
2.0430	NODE SW LICENSE, 300 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-0805	2,435.00	1	41,395.00	-	1	43,830.00	-	(2,435.00)	8,766.00	-	10,957.50	-	-	-	-
2.0440	NODE SW LICENSE, 400 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-0806	3,247.00	-	9,741.00	-	-	6,494.00	-	3,247.00	1,298.80	-	6,818.70	-	-	-	-
2.0450	NODE SW LICENSE, 800 Mbps TOTAL RADIO PAYLOAD CAPACITY	EZE-0807	3,866.00	0	-	-	0	-	0	-	-	-	0	-	-	-	-
2.0460	SECURE MANAGEMENT, INU inc SNMPV3 NODAL LICENSE UPGRADE, EZE-49001 TO EZE-49002, 60 Mbps TO 100 Mbps	EZF-60	974.00	60	58,380.00	-	60	58,380.00	-	11,676.00	14,895.00	-	32,106.00	-	-	-	-
2.0470	Mbps	EZA-690024 U1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.0480	CBL F SMA (M) to SMA (M), RAC-50 to IRU-600 RFU, 150CM	037-502964-0150	32.00	18	576.00	-	-	-	18	576.00	-	-	576.00	-	-	-	-
2.0490	CBL F SMA (M) to SMA (M), RAC-50 to IRU-600 RFU, 300CM	037-502964-0300	41.00	18	738.00	-	-	-	18	738.00	-	-	738.00	-	-	-	-
2.0500	CBL F SMA (M) to SMA (M), RAC-50 to IRU-600 RFU, 1000CM	037-502964-1000	76.00	0	456.00	-	-	-	0	456.00	-	-	456.00	-	-	-	-

0.0030	081 JACKFIELD, FIXED, NO INTERNAL CROSS-CONNECT, LOADED 28 CIRCUITS, 1 RU, 19" OR 23"W, 9"D, FRONT RJ48X INCLUDES AUTOMATIC LOOP-BACK FUNCTION, REAR WIREWRAP, NO POWER INPUT (097-0128-0005 T1 DEMARCATION CUSTOMER INTERFACE PANEL EQUIVALENT) (DSX-28P-RJ48)	NSM-DSX-28P-RJ48	1,159.00	51	59,109.00	40	46,360.00	11	12,749.00	-	-	-	-	59,109.00	-	-	-	-
6.0040	100 Microsec GPS Clock		0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0050	CLOCK, PRECISE TIMING GATEWAY CLOCK, TP4100 BASE UNIT WITH RUBIDIUM (090-14000-003)	SYM-090-14000-003	13,823.00	0	-	1	13,823.00	-1	(13,823.00)	-	-	-	-	-	-	-	-	-
6.0060	ANTENNA AND CABLE KIT, FOR PRECISE TIMING GATEWAY CLOCK TP4100, CABLE 200FT, LIGHTNING ARRESTOR KIT AND ANTENNA	SYM-090-15002-225	1,409.00	1	1,409.00	1	1,409.00	0	-	-	-	-	-	1,409.00	-	-	-	-
6.0070	NTP Reflector License NSM-920-14000-001	NSM-920-14000-001	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-
6.0080	CLOCK, PRECISE TIMING GATEWAY CLOCK, TP4100 BASE UNIT WITH RUBIDIUM and E1/T1 module (090-14001-003)	LSNetwork(SYM-900-14001-003)	13,823.00	2	27,646.00	-	-	2	27,646.00	-	-	-	-	27,646.00	-	-	-	-
6.0090	ETHERNET SFP MOD SINGL-MODE OPTL (121-20621-10-2)	SYM-121-20621-10-2	294.00	2	588.00	-	-	2	588.00	-	-	-	-	588.00	-	-	-	-
6.0100	SFP 100/100 electrical	LSNetwork(SYM-121-20621-10-2)	294.00	2	588.00	-	-	2	588.00	-	-	-	-	588.00	-	-	-	-
6.0110	HARDWARE		490.00	0	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0120	Includes Protected Controller and Power supply, Non Protected T1 cards to support 64 T1's.	LSNetwork(TBD)	30,345.00	0	-	1	30,345.00	-1	(30,345.00)	-	-	-	-	-	-	-	-	-
6.0130			0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0140	COOPS DACS V4150- Protected		0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0150	DACS Main Chassis 6U high, w/o power, CPU	LSNETWORK(V4150-CHA)	1,876.00	1	1,876.00	-	-	1	1,876.00	-	-	-	-	1,876.00	-	-	-	-
6.0160	Controller (4uaj) with SNMP	LSNETWORK(V4150-CCA)	5,200.00	3	15,600.00	-	-	3	15,600.00	-	-	-	-	15,600.00	-	-	-	-
6.0170	Connector Board (required)	LSNETWORK(V4150-CBA)	525.00	2	1,050.00	-	-	2	1,050.00	-	-	-	-	1,050.00	-	-	-	-
6.0180	Fan Board	LSNETWORK(V4150-FANA)	1,012.00	2	2,024.00	-	-	2	2,024.00	-	-	-	-	2,024.00	-	-	-	-
6.0190	Single 48VDC Power	LSNETWORK(V4150-SD48)	425.00	3	1,275.00	-	-	3	1,275.00	-	-	-	-	1,275.00	-	-	-	-
6.0200	53 T1 interface card	LSNETWORK(V4150-53T1E)	4,291.00	5	21,455.00	-	-	5	21,455.00	-	-	-	-	21,455.00	-	-	-	-
6.0210	16 Port Y-box for card protection, 16 in 32 out RJ48C Connectors	LSNETWORK(V4150-16RJ-G)	362.00	6	2,172.00	-	-	6	2,172.00	-	-	-	-	2,172.00	-	-	-	-
6.0220	SCSI Cable, Y box to 32TB Card	LSNETWORK(Loop-ACC-CAB-Y)	202.00	12	2,424.00	-	-	12	2,424.00	-	-	-	-	2,424.00	-	-	-	-
6.0230	Warranty/Documentation GUI Software, per controller	NSM-WARRANTY3	1,287.00	2	2,574.00	-	-	2	2,574.00	-	-	-	-	2,574.00	-	-	-	-
6.0240	Extension of warranty to 3 Years	NSM-WARRANTY3	2,028.00	1	2,028.00	-	-	1	2,028.00	-	-	-	-	2,028.00	-	-	-	-
6.0250			0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0260	COOPS DACS 3340 Protected		0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.0270	Main Chassis 3U high, w/o power, CPU	LSNETWORK(AM3440-CHP-Ca-G)	1,602.00	1	1,602.00	-	-	1	1,602.00	-	-	-	-	1,602.00	-	-	-	-
6.0280	Controller (2 for redundant) with SNMP	LSNETWORK(AM3440-CCPB-2GEAI)	3,240.00	3	9,720.00	-	-	3	9,720.00	-	-	-	-	9,720.00	-	-	-	-
6.0290	CLKa Mini Slot plug-in card, Clock in x2, obok out x1 Alarm in x1, Alarm out x2	LSNETWORK(AM3440-CLKa)	1,012.00	2	2,024.00	-	-	2	2,024.00	-	-	-	-	2,024.00	-	-	-	-
6.0300	Single 48VDC Power (2 for redundant)	LSNETWORK(AM3440-SDPB)	912.00	3	2,736.00	-	-	3	2,736.00	-	-	-	-	2,736.00	-	-	-	-
6.0310	Analogy Bridge card (2 for redundant)	LSNETWORK(AM3440-ABRA)	1,502.00	5	7,510.00	-	-	5	7,510.00	-	-	-	-	7,510.00	-	-	-	-
6.0320	Quad T1 Card (2 for redundant)	LSNETWORK(AM3440-T1)	1,163.00	5	5,815.00	-	-	5	5,815.00	-	-	-	-	5,815.00	-	-	-	-
6.0330	16 Port protection Y Box	LSNETWORK(V4150-G)	450.00	1	450.00	-	-	1	450.00	-	-	-	-	450.00	-	-	-	-
6.0340	Mapping/Documentation GUI Interface	NSM-MAP34	358.00	1	358.00	-	-	1	358.00	-	-	-	-	358.00	-	-	-	-
6.0350	Extend Warranty to 3years	NSM-WARRANTY3	1,110.00	1	1,110.00	-	-	1	1,110.00	-	-	-	-	1,110.00	-	-	-	-
6.0360	Training, 10 students, per student, includes study material, Includes travel expenses, two days	NSM-TRAINING-10-E	1,001.00	10	10,010.00	-	-	10	10,010.00	-	-	-	-	10,010.00	-	-	-	-
6.0380	Preconfiguration for both V4150 and AM3440 after documentation provided by customer	NSM-PRECONFIGURATION	4,290.00	1	4,290.00	-	-	1	4,290.00	-	-	-	-	4,290.00	-	-	-	-
6.1000	1 RU Chassis		0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.1001			0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.1002	EMPTY CHASSIS, FLATPACK S INTREPID POWER SYSTEM, NO CONTROLLER, 48VDC, REAR ACCESS, 80 AMP MAX, LVBD & SHUNT, 1 RU, 19", MIDFLUSH MOUNT, 3 EMPTY RECTIFIER POSITIONS, 2 LOAD BREAKER (NOT INCLUDED) POSITIONS, 2 BATTERY BRKR (NOT INCL) POS (FPS360I-MNL-VJC)	ELT-FPS360I-MNL-VJC	937.00	28	26,236.00	-	-	28	26,236.00	-	-	-	-	26,236.00	-	-	-	-
6.1003	SMARTPACK S CONTROLLER, FOR FLATPACK S INTREPID, 48 VDC, 100 AMP SYSTEM, 1 RU, 19", 6 PROGRAMMABLE DIGITAL OR ANALOG SIGNALS INPUTS, 6 PROGRAMMABLE RELAY OUTPUTS	ELT-SPS-FPS100-A01-VV	730.00	29	21,170.00	-	-	29	21,170.00	-	-	-	-	21,170.00	-	-	-	-
6.1004	RECTIFIER, FOR FLATPACK S INTREPID, 1 RU, 100-250 VAC INPUT, 48 VDC OUTPUT, 1800 WATTS, 37.5 AMP @ 220 VAC INPUT, 20 AMP @ 110 VAC INPUT (241122,125,VC)	ELT-241122,125	628.00	85	53,210.00	-	-	85	53,210.00	-	-	-	-	53,210.00	-	-	-	-
6.1005	FLATPACK S BLANK PANEL FOR EMPTY SLOT	ELT-331E00118500	25.00	0	-	-	-	0	-	-	-	-	-	-	-	-	-	-
6.1006	CIRCUIT BREAKER, 60 AMP PLUG-IN BULLET, MIDTRIP (CB8060M)	ELT-CB8060M	32.00	58	1,856.00	-	-	58	1,856.00	-	-	-	-	1,856.00	-	-	-	-
6.1007	LINE CORD WITH AMP MATE-LOCK CONNECTOR AT ONE END AND UNTERMINATED AT THE OTHER END, 12AWG CABLE, 20' LONG	LSNetwork(ELT-LA2012-UU)	119.00	30	3,570.00	-	-	30	3,570.00	-	-	-	-	3,570.00	-	-	-	-

