

Version 9.0 - August 2006

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Model 9.0-meter KPK (KingPost; Cassegrain; Ku-Band)

| Part ID | Quote ID | Description | Std. Del. (DARO) |
|--------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ANTENNA & FEED SYSTEMS; 9.0KPK (AZ/EL JACKSCREWS on a Motorizable Kingpost Pedestal (with Foundation Hardware Kit)) | | | |
| 900106-2120 | 19.01.01 | MODEL 9.0 KPK - 9.0 meter Cassegrain Antenna * Ku-band 2 port, Linear Polarized Feed, RX only * 2 RX (10.70 - 12.75 GHz) * Kingpost Pedestal - Galvanized * Jackscrews in Azimuth (120°) and Elevation (5°-90°) * Reflector - white diffusive painted Aluminum panels * Lightning arresting rods (2) * Foundation hardware kit * RF Spec # 975-1153 | 45 |
| 900106-2220 | 19.01.03 | MODEL 9.0 KPK - 9.0 meter Cassegrain Antenna * Ku-band 2 port, Linear Polarized Feed, TX/RX * TX (13.75 - 14.50 GHz) * RX (10.70 - 12.75 GHz) * Kingpost Pedestal - Galvanized * Jackscrews in Azimuth (120°) and Elevation (5°-90°) * Reflector - white diffusive painted Aluminum panels * Lightning arresting rods (2) * Foundation hardware kit * RF Spec # 975-1155 | 45 |
| 900106-2420 | 19.01.06 | MODEL 9.0 KPK - 9.0 meter Cassegrain Antenna * Ku-band 4 port, Linear Polarized Feed, TX/RX * 2 TX (13.75 - 14.50 GHz) * 2 RX (10.70 - 12.75 GHz) * Kingpost Pedestal - Galvanized * Jackscrews in Azimuth (120°) and Elevation (5°-90°) * Reflector - white diffusive painted Aluminum panels * Lightning arresting rods (2) * Foundation hardware kit * RF Spec # 975-2275 | 45 |

GENERAL DYNAMICS

C4 Systems

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| Part ID | Quote ID | Description | Std. Del. (DARO) |
|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 900106-2490 | 19.01.07 | 9.0 KPK - 9.0 meter Cassegrain Antenna * DBS-Band 4 port, Linear Polarized Feed, TX/RX * TX (17.30 - 18.40 GHz) * RX (10.70 - 12.75 GHz) * Kingpost Pedestal - Galvanized * Jackscrews in Azimuth (120°) and Elevation (5°-90°) * Reflector - white diffusive painted Aluminum panels * Lightning Arresting Rods (2) * Foundation hardware kit * RF Spec # 975-2407 | 75 |

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Model 9.0-meter KPK (KingPost; Cassegrain; Ku-Band)

| Part ID | Quote ID | Description | Std. Del. (DARO) |
|--------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| ANTENNA CONTROL SYSTEMS (ACS) | | | |
| | | Use the suffixes below to complete the ACS P/N: -xx04=208/120Vac 60Hz. -xx06=380/220Vac 50Hz; -xx16=European/CE -xx07=400/230Vac 50Hz. -xx17=European/CE -xx08=415/240Vac 50Hz. -xx18=European/CE -xxx=call for other available voltage configurations. | N/A |
| 900301-13xx | 90.02.02 | Model 7200 Antenna Control System with OPT including: * 7200 ACU (Antenna Control Unit), 4U rack-unit. * 7150 MCU (Motor Control Unit), Pad-Mount NEMA 4X. * Portable Maintenance Control Unit (PMCU) <u>w/ display</u> . * Resolvers, single speed, size 11 position transducers. * <u>3-axis</u> Servo Interface Kit including... * Drive Motors for AZ,EL and POL * Mounting Brackets for Limit Switches & Resolvers. * Conduits and Cables. * 100' IFL cable (Control, Display & Resolver). | 45 |
| 900301-23xx | 94.02.02 | Model 7200 Antenna Control System with OPT including: * 7200 ACU (Antenna Control Unit), 4U rack-unit. * 7150 MCU (Motor Control Unit), Pad-Mount NEMA 4X. * Portable Maintenance Control Unit (PMCU) <u>w/ display</u> . * Resolvers, single speed, <u>size 20</u> position transducers. * <u>3-axis</u> Servo Interface Kit including... * Drive Motors for AZ,EL and POL * Mounting Brackets for Limit Switches & Resolvers. * Conduits and Cables. * 100' IFL cable (Control, Display & Resolver). | 45 |

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| Part ID | Quote ID | Description | Std. Del. (DARO) |
|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 900309-13xx | 90.02.06 | Model 7134 EMT Antenna Control System including: * 7134 ACU (Antenna Control Unit), 3U rack-unit with * Enhanced Memory Track (EMT). * 7150 MCU (Motor Control Unit), Pad-Mount NEMA 4X. * Resolvers, single speed, size 11 position transducers. * <u>3-axis</u> Servo Interface Kit including... * Drive Motors for AZ,EL and POL * Mounting Brackets for Limit Switches & Resolvers. * Conduits and Cables. * 100' IFL cable (Control, Display & Resolver). | 45 |
| 900312-13xx | 90.02.08 | Model 7133B Antenna Control System including: * 7133B Jog Control Panel, 3U rack-unit. * 7133 MCU (Motor Control Unit), Pad-Mount NEMA 4X. * Resolvers, single speed, size 11 position transducers. * <u>3-axis Servo Interface Kit for 9.0M Ku-Band</u> including... * Drive Motors for AZ & EL. * Mounting Brackets for Limit Switches & Resolvers. * Conduits and Cables. * 100' IFL cable (Control, Display & Resolver). | 45 |
| 900343-13xx | 19.02.11 | Servo Interface Kit for 9.0 KP Ku-Band * Drive Motors for AZ, EL and POL * Limit Switches * Bracketry for Mounting Limit Switches and Transducers * Conduits and Cables * for Model 7134 or 7200 Controllers | 45 |
| 900345-13xx | 19.02.10 | Servo Interface Kit for 9.0 KP Ku-Band * Drive Motors for AZ, EL and Polarization * Limit Switches * Bracketry for Mounting Limit Switches and Transducers * Conduits and Cables * for Model 7133B Controllers | 45 |

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| Part ID | Quote ID | Description | Std. Del. (DARO) |
|------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 900341-xxxx | 18.02.40 | Servo Interface Kit for 9.0 KP Ku-Band * Drive Motors for AZ, EL and POL * Limit Switches * Brackets for Limit Switches & Transducers. * Conduits and Cables * for Customer Furnished Controllers (CFE) | CALL |
| 900349-02 | 90.02.50 | Manual Feed Pol Positioner Kit for 8.1/9.0M Ku-Band * Recommended for non-motorized LP Feed Systems. | 45 |
| ANTENNA DEICE SYSTEMS (ADS) | | | |
| | | Use the suffixes below to complete the ADS P/N: -01 = 208/120Vac 60Hz. -02 = 380-415/220-240Vac 50Hz. -21 = 380-415/220-240Vac 50Hz, European/CE. -xx = call for other available configurations. | N/A |
| 900355-xx | 18.03.1 | Deiced Feed and Subreflector (without Controls) | 60 |
| 900350-xx | 18.03.3 | Deiced Full Reflector * Electric Hot Air * Model 1230 Deice Controller | 60 |
| ANTENNA ACCESSORIES | | | |
| | | Use the suffix to complete the P/N: -01 = 208/120Vac 60Hz. -03 = 380-415/220-240Vac 50Hz. -21 = 380-415/220-240Vac 50Hz, European/CE. -xx = call for other available configurations. | N/A |
| 900400-01 | 18.04.0 | Ladder and Platform for 9.0 KPC/KPK * Galvanized | 45 |
| 900408-xx | 19.05.0 | Environmental Hub Kit (with Heater) * Front Rain Shield & Rear Hub Cover - Aluminum * Utility Light, Duplex Outlet(s) , Hi/Lo Temp alarm T'stats * Vent Fan and Heater with T'stat control. | 60 |

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| Part ID | Quote ID | Description | Std. Del. (DARO) |
|------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 900406-xx | 19.05.01 | Environmental Hub Kit (no Heater) * Front Rain Shield & Rear Hub Cover - Aluminum * Utility Light, Duplex Outlet(s) , Hi/Lo Temp alarm T'stats * Vent Fan with T'stat control. | 60 |
| 900415-xx | 18.05.02 | Utility Outlet and Light, Hub mounted | 45 |
| 900411-01 | 18.05.05 | Hub Closeout (Aluminum) Front and Rear. * for 9.0M Ku-Band Feed systems | 45 |
| 900411-02 | 18.05.06 | Hub Closeout (Aluminum) Front Rainshield * for 9.0M Ku-Band Feed systems. | 45 |
| 900401-01 | 18.09.3 | Lightning Arresting Down Conductors | 45 |
| 900495-01 | 18.10.0 | AZ/EL Verniers for 9 KPC/KPK | 45 |
| 900402-xx | 18.12.0 | Aircraft Warning Lights (2) | 45 |
| 900419-xx | 19.11.0 | Feed Rain Blower for 9.0KPK * Automatic * Heated * Moisture Probe * Hub mounted Controller | 60 |
| TX (TRANSMIT) INTEGRATION OPTIONS | | | |
| | | Use the suffix to complete the TX Xover P/N: -xxx0 = without CGC, WG supplied. -xxx4 = 40 dB CGC. -xxx5 = 50 dB CGC. | N/A |
| 900286-221x | 19.06.1 | TX Axis Crossover Waveguide (LP) for 9.0KP Ku-Band * Single WR75 TX Run from Az Axis to Feed Flange * 1 KW Power Capability * Without Crossguide Coupler (Add \$400 to include) | 45 |
| 900286-242x | 19.06.2 | TX Axis Crossover Waveguide (LP) for 9.0KP Ku-Band * Dual WR75 Tx run from Az axis to Feed Flange * 1 KW per Port Power Capability * Without Crossguide Couplers (Add \$800 to include 2) | 45 |
| UPGRADES & OPTIONS | | | |
| 900900-02 | 18.14.0 | Export Packing * Customer Furnished Ocean-Going Containers | 45 |

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| 900900-03 | 18.14.1 | Air Freight Packing | 60 |
| | 18.17.1 | 9.0 KPC/KPK, White Painted Reflector Backup Structure | 60 |
| | 18.17.2 | 9.0 KPC/KPK, White Painted Pedestal over Galvanize | 60 |
| | 18.09.1 | Extended Az Travel * Azimuth: 200° in two (2) 120° segments * Elevation 0 - 90° continuous | 75 |
| 900400-02 | 18.09.2 | Ladder and Platform for Extended Travel Pedestal | 75 |
| | 18.15.75 | ACS Low Temperature Option * for Operation down to -30° C (-22° F) * Low Temperature Motor Controller * Low Temperature grease, conduit and cable | 75 |
| | 18.16.76 | ADS Low Temperature Option * for Operation down to -30° C (-22° F) * Low Temperature Outdoor Deice Controller * Low Temperature Cable and Conduit | 75 |
| | 18.13.17 | Field Installation * One (1) Field Eng. - 9 Days on Site * Two (2) Field Tech- 9 Days on Site * 12 Ton Crane with 60-Ft Boom 3 Days * 25 Ton Crane with 70-Ft Boom 1 Day * Antenna and Motorization | N/A |