Like all CPI Antenna Systems Division the 7.2 meter earth station antenna that provides high gain and excellent pattern characteristics through the use of precision stretch-formed reflector panels and advanced computer-shaped Cassegrain optics.

Corrugated conical feed horns ensure excellent antenna gain and sidelobe performance. Sixteen high-strength aluminum panels are durable enough to withstand a range of environmental conditions. Antenna panels mount to radial trusses attached to a central hub without the need for field alignment. The hub also provides a protective enclosure for sensitive electronics.

The 7.2 meter earth station antenna includes a TORQUETUBE[™] mount with continuous 110° of motorized azimuth coverage in three overlapping sectors. An optional mount configuration is available, that provides continuous 180° coverage. The highstrength structural steel mount employs an elevationover- azimuth geometry for easy pointing to any satellite within the visible orbital arc. The mount's stiff, rugged construction provides pointing accuracy for continuous operation, even under adverse wind conditions.

The TORQUETUBE design is the most cost-effective way to achieve superior pointing accuracy. An added bonus is the ease with which the ground level azimuth actuator sectors are changed. The hot-dip galvanized mount, all aluminum reflector, and stainless steel and galvanized hardware assures maximum product life.



Features

- Compliant with FCC, ASIASAT, INTELSAT, EUTELSAT, ITU and more
- Meets INTELSAT Standard F-2, F-3 and E-3 requirements
- High-efficiency shaped Cassegrain optics
- Use with C-, X- or Ku-band systems (custom frequency options—consult factory)
- Minimal satellite repointing time with highspeed motorized option
- Large electronics space in hub
- Precision high-strength structural steel TORQUETUBE™ mount
- 180° continuous azimuth coverage option
- Full line of feed, reflector, and mount options available including TT&C pointing upgrade
- CE compliant



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Design Standards

Reflector	Aluminum painted with highly diffusive white paint
Ground Mount	Hot-dipped galvanized steel, per ASTM-A123 for structural steel.
Hardware	Sizes \leq 3/8 in (9.5mm), stainless steel, passivated per MIL-F-14072-E300 Sizes \geq 3/8 in (9.5mm), hot-dipped galvanized stainless steel, passivated per ASTM-A123

Environmental Performances

Operating Temperature	-40° to 65°C (-40° to 150°F)
Seismic (Earthquake)	1 G Vertical and Horizontal acceleration. Equivalent to a Richter Magnitude 8.3, and Grade 11 on the modified Mercalli Scale
Operational Winds	121 km/h; 75 mph gusting to 144 km/h; 90 mph
Survival Winds	193 km/h; 120 mph, stowed, 15 [°] C, no ice
Rain	4 in (102 mm) per hour
Solar Radiation	360 BTU/hr/ft ² (1135 Watts/m ²⁾
Relative Humidity	100%
Shock and Vibration	As encountered by commercial Air, Rail and Truck shipment.
Atmospheric Conditions	As an assumbly of the Mardon state Originality
Atmospheric Conditions	As encountered by Moderately Corrosive Coastal and Industrial Areas.

Mechanical Performances

The 7.2m Antenna mechanical general specifications and performances are listed in below table. Additional information, dimensions and layout may be provided by CPI Antenna Systems Division on a case-by-case basis.

Optics Type	Dual reflector, shaped axi-symmetric
Reflector Material	Precision-Formed Aluminum
Reflector Segments	16
Mount Type	El over Az
Antenna Pointing Range Coa	rse/(Continuous)
Elevation:	0-90° (90°)
Azimuth:	180° in 3 overlapping 110° sectors Optional 180° continuous
Polarization	180° (180°)
Hub/Enclosure Dimensions	
Diameter	
Depth	

Shipping Information

Packing Options	
Standard Commercial Domestic Pack	Included
Ocean Export Pack - For non-containerized, packed for seal against salt water spray	OCEANSHP-MD
Air Export Pack - For freighter aircraft shipments. Lower deck AirPack requires specialized bids	AIR EXPORT PACK-MD
Container Packaging	CNTPCK-MD
Required Shipping Container	
Standard 20 ft land/sea container	
Standard 40 ft land/sea container	

Shipping container information is given for basic configuration and may vary depending on the selected options, please contact CPI Antenna Systems Division for specific container loading plan.



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Dimensional Drawings

Preliminary document Please contact CPI Antenna Systems Division to obtain the related information.



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Typical Foundation Design

Preliminary document Please contact CPI Antenna Systems Division to obtain the related information.

Soil Bearing Capacity, Reinforcing Steel, Concrete Compressive Strength, Foundation Size: Length Width Depth Concrete Volume

NOTE: Other typical foundation designs are available. Soil borings and foundation analysis should be performed by a qualified civil engineer.

Foundation information are provided in bulletin xxxxxx, please contact CPI Antenna Systems Division.

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Motor Drive Speed Summary

Variable			
0.05°/s	0.5°/s		
0.05°/s	0.5°/s		
19	°/s		
	0.05°/s 0.05°/s		

Motorization

NV

One motorization system is available for this antenna: the NGC tracking system that can support Steptrack, Smartrack and Ephemeris orbital tracking.

NGC-MK91
NGC-MK91HA
NGC-ODU-208-5
NGC-ODU-380-5
NGC-ODU-208-5-HA
NGC-ODU-380-5-HA

Antenna controller, motorization and options are detailed in specific bulletins, please contact CPI Antenna Systems Division..

Antenna Configuration

Earth Station Antennas	
110º Motorizable Mount with Az/El Jackscrews.	ES72-1
180º Motorizable Mount with Az/El Jackscrews.	ES72MPEX-1
Extreme Environment 110 ⁹ Motorizable Mount with Az/El Jackscrews.	ES72-EE-1
Extreme Environment 180 ^o Motorizable Mount with Az/El Jackscrews.	ES72MPEX-EE-1
TT&C 110 ^e Motorizable Mount with Az/El Jackscrews.	ES72-EE-1-TTC
TT&C 180 ^e Motorizable Mount with Az/El Jackscrews.	ES72MPEX-EE-1-TTC

Motorization and NGC Options

Indoor	
NGC-IDU	NGC Rack Mounted Antenna Controller W/LCD Touch Panel
NGC-001	NGC-IDU Analog Telephone Modem
NGC-002	NGC-IDU Spectrum Analyzer Card, Analog
NGC-002	NGC-IDU Spectrum Analyzer Card, Analog Enhanced Dynamic Range
NGC-003	NGC-IDU DVB Receiver Card
NGC-004-02	NGC IDU, L-Band Internal Beacon Receiver
NGC-004-02-IDU	NGC 1RU, L-Band Beacon Receiver
NGC-006	NGC-IDU Emergency Stop Button
NGC-007	NGC-IDU 10 Mhz Reference Source
NGC-008	NGC-IDU Redundant Power Supply
NGC-009	NGC-IDU Rack Slides
NGC-101	NGC-IDU Step Tracking Software
NGC-102	NGC-IDU Smartrack Software
NGC-103	NGC-IDU Predictive Track Software
NGC-104	NGC-IDU Full Tracking Capability Software
NGC-106	NGC-IDU Remote Access Software Package
NGC-107	NGC-IDU Spectrum Analyzer Enhanced User Interface
NGC-108	Receive Pattern Test Tool
NGC-109	Redundancy Control Software
NGC-111	Sand/Dust Deviator Feature
NGC-119	NGC High Availability System Redundancy Software
Outdoor	
NGC-201	NGC ODU Low Temperature Kit (-40 C)
NGC-202	NGC ODU High Temperature Kit (+60 C)
NGC-206	NGC Exterior Emergency Stop Button
NGC-207	Pre Movement Alert Warning Light And Announcator
NGC-211	Dual Path NGC Redundancy
NGC-AESC	Environmental System Controller

Antenna controller, motorization and options are detailed in specific bulletins, please contact CPI Antenna Systems Division..



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Feed Matrix

C- BAND FEED SYSTEMS	PORT	Co-Pol	СР	LP	RX 3.625 - 4.2 GHz	RX 3.4 - 4.2 GHz	TX 5.850 - 6.725 GHz	
4CPWWC-72-206	4		Х			Х		Х
4LPWWC-72-VP	4			Х		Х		Х

Ku- BAND FEED SYSTEMS	PORT	LP		TX 12.75- 13.25 GHz	
4LPKU-72-1-VP	4	Х	Х		Х



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Antenna Options and Spares

Anchor Bolt and Template K	(its Options
263359	110° Az Anchor Bolt & Template Kit
476374	180° Az Anchor Bolt & Template Kit
Azimuth and Elevation Cros	a Axis Wayaguida Ontions
XAPC-72	C-Band cross Axis and Polarization Axis
XAPU-72	Waveguide Kit.
XAPC-72-UPG	C-Band Cross Axis and Polarization Axis Waveguide Kit Upgrade. Upgrades XAPKK-72 for use with 4-port C-Band Feeds.
XAPKU-72	Ku-Band Cross Axis and Polarization Axis Waveguide Kit. Single run for 2-Port Ku-Band Feeds.
XAPKU-72-UPG	Ku-Band Cross Axis and Polarization Axis Waveguide Kit Upgrade. Upgrades XAPKU-72 for use with 4-Port Ku-Band Feeds. Provides Additional Waveguide Run.
XAPC-91	C-Band cross Axis and Polarization Axis Waveguide Kit. Use with EE and TTC antennas.
XAPC-91-UPG	C-Band Cross Axis and Polarization Axis Waveguide Kit Upgrade. Upgrades XAPC-91 for use with 4-port C-Band Feeds. Use with EE and TTC antennas.
XAPKU-91	KU-Band cross Axis and Polarization Axis Waveguide Kit. Use with EE and TTC antennas.
XAPKU-91-UPG	KU-Band Cross Axis and Polarization Axis Waveguide Kit Upgrade. Upgrades XAPKU-91 for use with 4-port KU-Band Feeds. Use with EE and TTC antennas.
Heating Options	
FHC-72	C-Band Feed Heater
FHX-72	X-Band Feed Heater
FHKUK-72	Ku-K-Band Feed Heater
WEC72R-208-100	Electric Hot Air De-Ice System, 208 VAC, 3 Phase
WEC72R-380-100	Electric Hot Air De-Ice System, 380 VAC, 3 Phase

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EMRGYLT-115Emergency Hub Light Kit, 115 VACEMRGYLT-230Emergency Hub Light Kit, 230 VACFV1HV0-115Fan Vent Kit 115 VACFV1HV0-230Fan Vent Kit 230 VACHUBHTR-230Antenna Hub Heater, 230 VACHUBLCNTR-115/240Hub Power Center, 230 VACHUBLCNTR-230Hub Power Center, 230 VACHUBLT-15Hub Light Kit, 115 VACHUBLT-230Hub Light Kit, 230 VACSafety OptionsFoundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-180Full Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light KitOther OptionsFeed System TestingTK-VEP-LGTool Kit1011807TT&C Mount Alignment Kit516212Theodolite Alignment Kit516212Theodolite Alignment KitANGVERN-91Manual Angle IndicatorPDKUK-72-208Precipitation Deviator Ku-K, 208/230 VAC.PDKUK-72-380Precipitation Deviator Ku-K, 380/415 VAC.	Hub Equipment Options	
FV1HV0-115Fan Vent Kit 115 VACFV1HV0-230Fan Vent Kit 230 VACHUBHTR-230Antenna Hub Heater, 230 VACHUBLCNTR-115/240Hub Power Center, 115/240 VACHUBLCNTR-230Hub Light Kit, 115 VACHUBLT-115Hub Light Kit, 115 VACHUBLT-230Hub Light Kit, 230 VACSafety OptionsFoundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-180Full Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light KitOther OptionsLubrication and Maintenance Kit 201769-72Lubrication and Maintenance Kit201769-72Handwheel KitTaol KitTSTFeed System TestingTK-VEP-LGTool Kit1011807TT&C Mount Alignment Kit516212Theodolite Alignment KitANGVERN-91Manual Angle IndicatorFUVOronent Systems OptiorsPrecipitation Deviator Ku-K, 208/230 VAC.	EMRGYLT-115	Emergency Hub Light Kit, 115 VAC
FV1HV0-230Fan Vent Kit 230 VACHUBHTR-230Antenna Hub Heater, 230 VACHUBLCNTR-115/240Hub Power Center, 115/240 VACHUBLCNTR-230Hub Power Center, 230 VACHUBLT-15Hub Light Kit, 115 VACHUBLT-230Hub Light Kit, 230 VACSafety OptionsANTGND-9Foundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° MountMANPL113-180Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light KitOther OptionsEed System Testing209906-72Lubrication and Maintenance Kit201769-72Handwheel KitFTSTFeed System TestingTK-VEP-LGTool Kit1011807TT&C Mount Alignment KitANGVERN-91Manual Angle IndicatorEnvironment Systems OptionsPrecipitation Deviator Ku-K, 208/230 VAC.	EMRGYLT-230	Emergency Hub Light Kit, 230 VAC
HUBHTR-230Antenna Hub Heater, 230 VACHUBLCNTR-115/240Hub Power Center, 115/240 VACHUBLCNTR-230Hub Power Center, 230 VACHUBLT-115Hub Light Kit, 115 VACHUBLT-230Hub Light Kit, 230 VACSafety OptionsANTGND-9Foundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° MountMANPL113-180Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-ENHFull Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light KitOther OptionsEubrication and Maintenance Kit209906-72Lubrication and Maintenance Kit209906-72Tool Kit1011807TT&C Mount Alignment Kit516212Theodolite Alignment Kit516212Theodolite Alignment KitANGVERN-91Manual Angle IndicatorEnvironment Systems OptionsPrecipitation Deviator Ku-K, 208/230 VAC.	FV1HV0-115	Fan Vent Kit 115 VAC
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HUBLT-115Hub Light Kit, 115 VACHUBLT-230Hub Light Kit, 230 VACSafety OptionsANTGND-9Foundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° MountMANPL113-180Maintenance Platform and Ladder Kit 180° MountMANPL113-ENHFull Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light Kit209906-72Lubrication and Maintenance Kit201769-72Handwheel KitFTSTFeed System TestingTK-VEP-LGTool Kit1011807TT&C Mount Alignment Kit516212Theodolite Alignment KitANGVERN-91Manual Angle IndicatorPDKUK-72-208Precipitation Deviator Ku-K, 208/230 VAC.	HUBLCNTR-115/240	Hub Power Center, 115/240 VAC
HUBLT-230Hub Light Kit, 230 VACSafety OptionsFoundation Installed Grounding KitANTGND-9Foundation Installed Grounding KitLRK9Lightning Rod Kit475954Standard Maintenance Platform and Ladder Kit 120° and 180° MountsMANPL113-120Maintenance Platform and Ladder Kit 120° MountMANPL113-180Maintenance Platform and Ladder Kit 180° MountMANPL113-ENHFull Maintenance Platform and Ladder Kit 120° and 180° MountsOBWRNLT-UNVObstruction Warning Light KitOther OptionsUubrication and Maintenance Kit209906-72Lubrication and Maintenance Kit201769-72Handwheel KitFTSTFeed System TestingTK-VEP-LGTool Kit1011807TT&C Mount Alignment Kit516212Theodolite Alignment KitANGVERN-91Manual Angle IndicatorEnvironment Systems OptionsPrecipitation Deviator Ku-K, 208/230 VAC.	HUBLCNTR-230	Hub Power Center, 230 VAC
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PDKUK-72-208 Precipitation Deviator Ku-K, 208/230 VAC.	ANGVERN-91	Manual Angle Indicator
· · · · · · · · · · · · · · · · · · ·	Environment Systems Optio	ns
PDKUK-72-380 Precipitation Deviator Ku-K, 380/415 VAC.	PDKUK-72-208	Precipitation Deviator Ku-K, 208/230 VAC.
	PDKUK-72-380	Precipitation Deviator Ku-K, 380/415 VAC.

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