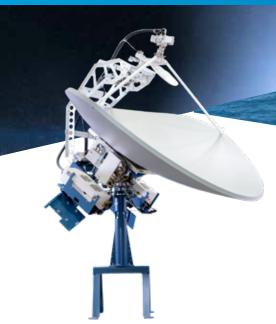
Sea Tel[®] 2400

Frequency Flexibility. Platform Scalability. A Heritage of Reliability. Any Orbit. Any Network. Anywhere.

Product Sheet





The 9711 IMA C/Ku system powers HTS for more global offshore enterprises than any other brand today, unlocking new capabilities through unmatched performance and reliability. But, staying agile in the modern business environment demands greater flexibility than ever before. Managed IT service providers must position themselves to adapt quickly and cost effectively in delivering the desired customer outcome. Business decision makers increasingly expect a frictionless experience.

Sea Tel 2400 – a modern IT solution built for tomorrow's needs on the field-proven heritage of today's leading brand.

A Platform Designed for Scalability – invest at your own pace

Single, Dual, or Triband: invest in what you need today without sacrificing what you will want tomorrow. The Sea Tel 2400 brings choice as the end user will have a single antenna pedestal capable of supporting C Band, Ku Band and Ka Band in any combination they desire. Capable of operating in any orbit, including LEO,

MEO, GEO and HEO, Sea Tel 2400 is the most versatile solution in the industry. Businesses can scale IT investment to suit their digital roadmap with a platform that enables flexibility. Service providers can build 100% orbit and network agnostic on-demand managed service offerings to meet evolving customer needs.

Unmatched Efficiency & Throughput – True 2.4m Performance Across All Frequencies

Built upon a legacy of over 30 years of research, development and customer collaboration, Cobham SATCOM has invested significantly in enhancing the new design to push performance. The RF architecture offers the most efficient design in the industry allowing for almost double the RF power with the same size antenna, easily outperforming all other offerings.

The improved RF performance is driven by a number of factors including superior cross-pol isolation at Ku band; full transmit waveguide to keep the amplifiers for both transmit and receive close to the feed (OMT) to minimize loss whilst increasing RF performance; and finally full illumination of the Ka tolerant reflector as another way of reducing loss of performance.

Furthermore, Sea Tel 2400's RF payload design allows the system to support far greater amplifier power in all bands than any other option. Existing Sea Tel systems in operation today exceed 2Kw in RF power operating in C and Ku-band. The Sea Tel 2400 supports Ka-band amplifiers up to 160W today.

Robust Design & Ease of Installation

One of the most important design considerations for any system is the pointing accuracy and stability of the antenna to ensure it stays on satellite whatever happens. Cobham SATCOM invented the stabilized antenna systems and continues to lead the market in terms of robustness, vibration and shock tolerance.

The Sea Tel 2400 is no exception and has passed rigorous testing to include IEC 60945 and MIL 901D class B testing for shock and vibration as well as temperature testing to ensure the Sea Tel 2400 will continue to operate and survive in the harshest environments experienced at sea. The robust antenna design allows the antenna to absorb a tremendous level of shock and vibrations with no impact on performance or longevity of the system.

Shipped in two crates in three preassembled units, the system is easily installed in a single day. As the installation footprint is identical to that of Sea Tel 9711, there is no need to change platforms when upgrading to the Sea Tel 2400.

The Sea Tel 2400 series allows customers to purchase a dual band system now and upgrade to Triband whenever you decide to do so. There is no longer a need to tie up capital for equipment now that you will not use for a year or two – or may not be certain that you will ever need it in the future.

With the Sea Tel 2400 you are ready for the future. What you purchase today will be ready for the demands of tomorrow.

SEA TEL® 2400



Simport (vigorit (typically) Soytem Crace (1890bins (1800ay)	Install Weight (typically)	1300 Lbs (590kgs) (with 144" radome)	Type RADOME ASSEMBLY (144 inch)	Frequency Tuned
STABILIZED AFTENIAR PEDESTAL ASSEMBLY Three-sixs (Level, Cross Level and Asimuth) Type	3 (71 77	, ,,,		
STABLIZED ATTERNA PEDSTAL ASSEMBLY Property Three says (Level, Cross Lorel and Asimuth) Highly \$360 68cm (142 might) 140 58cm	Shipment Weight (typically)	, , , , , , , , , , , , , , , , , , , ,		Composite roam/laminate
Type	CTARTITIES ANTENNA DESEC	, ,,		365 76cm (144 inch)
Stabilization				,
Scabellity Accuracy		, ,		
Subject Subj		· · · · · · · · · · · · · · · · · · ·		` - ,
Property	Stability Accuracy	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
ADE		ship motions (see below).	Number of panels	
Workstorpake release, profestal drive and BLC drive) PLUS RE Equipment - 2500Mats max, Total power consumption - 2600Watts Total power consu				
### PATENDA REFLECTOR (PRIMARY) ANTENNA REFLECTOR (PRIMARY) 10 Honoycomb Fibroglass Parabola 2.4 Meter Modified Offset 11 RADOME RP PERFORMANCE C-Band 11 Zigli at 6.18 GHz AD Selection (July 19 July 1	ADE		Installed height:	, , -
Installed weight Sep System Weight of the ADE Above Radome, base frame yeldandral regist		, , , , , , , , , , , , , , , , , , , ,		5 .
RADENNA REFLECTOR (PRIMARY) Type Line		PLUS RF Equipment=2150Watts max.		` '
Type		Total power consumption=2600Watts	Installed weight	See System Weight of the ADE Above (includes
The National Performance 1.0 1	ANTENNA REFLECTOR (PRIM/	ARY)		Radome, base frame w/standard legs & braces
The ADDOMER RF PERFORMANCE C-Shard TX Gain	Туре	Honeycomb Fiberglass Parabola		.,
Table		2.4 Meter Modified Offset	Wind:	Withstand relative average winds up to
TX Gain	IN RADOME RF PERFORMANC	DE CONTRACTOR DE		201 Kmph (125 mph) from any direction.
Excession 37.5 disk 3.9.5 disk (astociated) Humidity	C-Band		Ingress Protection Rating	IP 56
Humidity	TX Gain	41.7 dBi at 6.18 GHz	ADE ENVIRONMENTAL CONDIT	TIONS
Mark	RX Gain	37.5 dBi @ 3.95 GHz	Temperature Range (Operating)	-25° to +55° Celsius (-13° to +131° F)
Wind Speed \$6 m/sec (125 mph)				· · · · · · · · · · · · · · · · · · ·
N. Gain		. , 5 (
Section 44.7 dBis 11.8 GHz (using Sub-reflector) GFT (50° elevation, clear sky) 2.7.2 dBjK 12.75 GHz (calculated) KR-Band 5.9 dBis 2.8.75 GHz (using Sub reflector) GFT (30° elevation, clear sky) 2.4 dBjK 19.0 GHz (using Sub reflector) GFT (30° elevation, clear sky) 2.4 dBjK 19.0 GHz (using Sub reflector) GFT (30° elevation, clear sky) 2.4 dBjK 19.0 GHz (using Sub reflector) GFT (30° elevation, clear sky) 2.4 dBjK 19.0 GHz (using Sub reflector) GFT (30° elevation, clear sky) 2.4 dBjK 19.0 GHz (acculated) FEDESTAL RANGE OF MOTION! FEDESTAL RANGE OF MOTION! FEDESTAL RANGE OF MOTION! Felevation Disor Angle 16.6 to + 105.4 degrees FELevation Disor Angle 1.0 to +75 degrees (with 15 degrees (with 15 degree Roll) + 10 to +75 degrees (with 15 degree Roll) + 10 to +75 degrees (with 15 degree Roll) + 10 to +75 degrees (with 15 degree Roll) + 10 to +75 degrees (with 15 degree Roll) MAXIMUM SHIP MOTIONS Roll +/ -20 degrees (with 15 degree Roll) First +/ -20 degrees (with 16 degree Roll) First +/ -20 degrees (with 16 deg		48.5 dBi @ 14.25 GHz (using Sub reflector)		1,120 Watts per square meter, 55° Celsius
Strive (ce loads of 4.5 pounds per sque RN-8-and		, , , , , , , , , , , , , , , , , , , ,		Resistant to water penetration sprayed from any direction
No. S. 3 of Bit 28.75 GHz (using Sub reflector) Rain Dis 10.15 GHz (using Sub reflector) Rain Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation floor Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation floor Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion resistant or are treath effects of salt air and salt spray. The expectation Parts are crorosion Parts are crorosio		, , ,		Survive ice loads of 4.5 pounds per square foot. Degrade
TX Gain S3.0 d Bit @ 28.75 GHz (using Sub reflector)		21.2 UDIN W 12.13 OFIZ (Calculated)	iong	
EX Gain S0.5 d8 ≥ 19.0 GHz (waing Sub-reflector) G/T (20° elsevation, clear sky) S0.5 d8 ≥ 19.0 GHz (waing Sub-reflector) G/T (20° elsevation, clear sky) S6.4 d8 /K ≥ 19.0 GHz (calculated) SPEDESTAL RANGE OF MOTION: Elevation Bore Angle -16.6 to ±105.4 degrees -16.6 to		F2 0 dB; @ 20 7F CH= (u=!== Cut ===========	Pain	
G/T (39° elevation, clear sky) 26.4 dB/K © 19.0 GHz (calculated) PerbESTAL RANGE OF MOTION: Elevation Bore Angle -16.6 to +105.4 degrees -16.6 to +105.4 degrees Cross Level (Inclined 30°) +/- 30 degrees Almuth Unlimited House Hold Schange Point (MXP) Standard 19 Inch Rack mount Hold Schange Point (MXP) Standard 19 Inch Rack mount Nedia Xchange Point (MXP) Standard 19 Inch Rack mount Nedia Xchange Point (MXP) Standard 19 Inch Rack mount Nedia Xchange Point (MXP) Standard 19 Inch Rack mount Noe Unit High The Ya 17 X 17 X 17 X 175 (Inches)/ 43.18 x 43.18 Input Voltage 85-264 VAC, 47-63Hz, single phase No Hold Schange Point (MXP) Standard 19 Inch Rack mount Noe Unit High The Ya 17 X 17 X 17 X 175 (Inches)/ 43.18 x 43.18 Neight MAXIMUM SHIP MOTIONS Roll 4/- 25 degrees (Roll only) +/- 20 degrees (Combined with Pitch) Turning rate Up to 12 deg/sec and 15 deg/sec/sec 13 B/A Ethernet - 2 ports of the 4 Port 10/11 Turning rate Up to 12 deg/sec and 15 deg/sec/sec 14 B/A Ethernet - 2 ports of the 4 Port 10/11 Headway Up to 50 knots Headway Up to 50 knots Headway 0.2G 38 DE9 (7) - Serial Console - Antenna Mac Surge 0.2G 39 DE9 (7) - Serial Console - Antenna PROSE Serial MSC - A Realto IMAC, Benoth MSC, Benoth		` - ,	Nall	
Elevation Bore Angle			Comparison	·
Elevation Bore Angle		, - ,	Corrosion	
Cross Level (Inclined 30°)				effects of salt air and salt spray. The equipment is specif
Azimuth Unlimited Hotel Stanger Point (MXP)	•	•		cally designed and manufactured for marine use.
Elevation Pointing		· •	_	
# 5 to +80 degrees (with 20 degree Roll) Hou +75 degrees (with 20 degree Roll) Hou +75 degrees (with 25 degree Roll) Hou to 475 degrees (with 25 degree Roll) Input Voltage	Azimuth	Unlimited	Media Xchange Point (MXP)	
Hour Notage	Elevation Pointing	+0 to +85 degrees (with 15 degree Roll)	Standard 19 Inch Rack mount	One Unit High
Relative Azimuth Pointing		+5 to +80 degrees (with 20 degree Roll)	Physical Dimensions	17 X 17 X 1.75 (Inches)/ 43.18 x 43.18 x 4.45 (cm)
Rear Panel Connections		+10 to +75 degrees (with 25 degree Roll)	Input Voltage	85-264 VAC, 47-63Hz, single phase, 110 Watts
Roll	Relative Azimuth Pointing	Unlimited	Weight	6.6lbs/ 3.0 kgs
H-/- 20 degrees (combined with Pitch) 11	MAXIMUM SHIP MOTIONS		Rear Panel Connections	
First	Roll	+/- 25 degrees (Roll only)	AC Input	Modular AC Power Input Receptacle
Pitch			J1	F (F) - RXIF Output to Satellite Modem
Yaw +/-8 degrees at 15-20 sec periods 13 B/A Ethernet - 2 ports of the 4 Port 10/10 periods of t	Pitch		J2	
Turning rate			J3 B/A	Ethernet - 2 ports of the 4 Port 10/100
Headway				· · · · · · · · · · · · · · · · · · ·
Heave	_			•
Surge 0.2G 37		•		
Sway 0.2G J8 DE9 (F) - Serial Console - Antenna septectFIED SHIP MOTION (for stability accuracy tests) J9 A/B RJ45 Serial M&C - A=Radio M&C, B=Roll				
SPECIFIED SHIP MOTION (for stability accuracy tests) J9 A/B				
Roll				. ,
Pitch 10° Fixed 10° Fixed 110° Fixed 110° Fixed 111° Terminal Strip - Gyro Compass (SBS-Relative Azimuth (Heading) 0, 45 and 90° with respect to roll input 112° Terminal Strip - Auxiliary Interface Terminals 112° Terminal Strip - Auxiliary Interface Port I			· ·	
Relative Azimuth (Heading) 0, 45 and 90° with respect to roll input POWER SUPPLY (ADE-PCU) A/C Input Voltage 85-264 VAC, 47-63Hz, single phase J12 Terminal Strip - Auxiliary Interface Text Policy (Notage 24 VDC, 150W J14 DE-9 (M) - AUX (RS-232) Interface Power P		· · · · · · · · · · · · · · · · · · ·		•
March Strip Auxiliary Interface Tect				rerminal Strip - Gyro Compass (SBS-Synchro)
A/C Input Voltage 85-264 VAC, 47-63Hz, single phase J13 DE-9 (M) - NMEA 0183 Interface Port Voltage 24 VDC, 150W J14 DE-9 (M) - AUX (RS-232) Interface Port Voltage J50W (total) J15 NMEA 2000 Interface Port - Future Decorated Port Capacity J3.0A (total) SDE ENVIRONMENTAL CONDITIONS Temperature Other 40 degrees C Humidity Up to 100% @ 40 degrees C Humidity Up to 100% @ 40 degrees C Humidity Up to 100% @ 40 degrees C Non-Cord Regulatory Compliance Storage Temperature -40°C to +60°C Survival Shock and Vibration IEC-60945, MIL-STD-167 Operational Shock and Vibration Operational: IEC-60945, MIL-STD-167 Operational Shock and Vibration Up to 100% @ 40 degrees C Non-Cord Regulatory Compliance Survival Shock and Vibration IEC-60945, MIL-STD-167 Operational Shock and Vibration Operational: IEC-60945, MIL-STD-167 Operational Shock and Vibration Operational Shock and Vibration Operational: IEC-60945, MIL-STD-167 Operational Shock and Vibration Operational Shock and Vibration Operational Shock and Vibration Operational Shock		0, 45 and 90° with respect to roll input		T . 10 A T. 5
Voltage 24 VDC, 150W J14 DE-9 (M) - AUX (RS-232) Interface Power Part of Part				Terminal Strip - Auxiliary Interface Terminals
Wattage 150W (total) Current Capacity 13.0A (total) GPS (On Board) Waterproof IPX7 Operating Temperature -30°C to +60°C Storage Temperature -40°C to +60°C Altitude -304m to 18,000m' Vibration IEC 68-2-64 Shock 50G Peak, 11ms Connector R111 NMEA 2000 Interface Port - Future December 15 Environments IEC 60945, MIL-STD-167 EMI/EMC Compliance Ku-Band ETSI EN 301 843-1 V1.4.1 (2004-06) ETSI EN 301 399 (1998-03) IEC EN 60945:1997 Refresh Rate 1s Satellite Earth Stations and System (SES) ETSI EN 301 428-1 V1.3.1 (2006-01) INTEGRATED CONTROL UNIT (ICU) Integrated SCPC Receiver Tuning Range 950 to 1950 MHz in 1 KHz increments Input RF Level -85 to -25dBm typical Output RF Level Input level +/- 1dB typical				DE-9 (M) - NMEA 0183 Interface Port
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Tuning Range 950 to 1950 MHz in 1 KHz increments Environmental Compliance RoHS Input RF Level -85 to -25dBm typical Green Passport Output RF Level Input level +/- 1dB typical FCC ESV Compliance C-Band 47 C.F.R. § 25.221		(ICU)		• •
Input RF Level -85 to -25dBm typical Green Passport Output RF Level Input level +/- 1dB typical FCC ESV Compliance C-Band 47 C.F.R. § 25.221	Integrated SCPC Receiver		· · · · · · · · · · · · · · · · · · ·	` ,
Output RF Level Input level +/- 1dB typical FCC ESV Compliance C-Band 47 C.F.R. § 25.221	Tuning Range	950 to 1950 MHz in 1 KHz increments	Environmental Compliance	RoHS
	Input RF Level	-85 to -25dBm typical	Green Passport	
	Output RF Level	Input level +/- 1dB typical	FCC ESV Compliance C-Band	47 C.F.R. § 25.221
	Sensitivity	30mV/dB typical (25 counts/dB typical)	FCC ESV Compliance Ku-Band	47 C.F.R. § 25.222
Bandwidth (3dB) 150 KHz FCC ESV Compliance Ka-Band 47 C.F.R. § 25.138 (FSS)	· · · · · · · · · · · · · · · · · · ·	, ,, , , , ,	•	
Interfaces Options Bluetooth	` ,			
Modem/MXP M&C Interface OpenAMIP & Legacy		OnenAMIP & Legacy	P	
Network Interface 4-port managed fast ethernet switch				
				For further information please contact:

For further information please contact: satcom.maritime@cobhamsatcom.com

Web Browser/Console Port 1s

User Interface