MILITARY

COMMUNICATIONS

SATELLITE

RADAR

INSTRUMENTATION

MEDICAL

SWITCHES

SOLID STATE HIGH POWER AMPLIFIERS





TABLE OF CONTENTS

General Purpose Linear Amplifiers	
Series AM4	
Series AR5	
Wireless Band Linear Amplifiers	
Series AM Wireless6	
Series AR Wireless7	
100 Watt Amplifiers	
Series UMTS/PCS/DCS8	
Class AB Linear Amplifiers	
Series BHE9-1	
Pulse Amplifiers	
Series PHE/PHC12	
Class C Amplifiers	
Series CHC13	
Medical Products	
Series SSPA14	
Satellite Products	
Series Satcom15	
High Power Switches	
and Limiters16	
Custom Design	
Capability17	
Environmental Specifications	
and Conversion Charts18	
Quality	
Remote Control Interfaces	

Comtech PST Corporation

105 Baylis Road Melville, NY 11747

Telephone: +1 (631) 777-8900 Fax: +1 (631) 777-8877

E-mail: sales@comtechpst.com Web: www.comtechpst.com



Comtech PST Corp. (CPST) designs, develops, and manufactures solid-state high-power amplifiers.

We serve a variety of domestic and international high technology markets including defense, wireless and satellite communications, cellular and PCS instrumentation, electromagnetic compatibility testing, and medical testing systems. Located in Melville, NY, Comtech PST's facility is a modern, 46,000 square-foot structure that provides office space for our corporate office as well as engineering and manufacturing for the Comtech PST Division.

A subsidiary of Comtech Telecommunications Corp., the PST division was established in 1987 for the express purpose of designing and manufacturing High Power RF Amplifiers. Our engineering talent has participated in the major growth of this technology. This background in solid state amplifier design and development has provided CPST with experience in such diverse fields as EW/ECM systems, TACAN/ RADAR systems, TWT replacement, high power testing, satellite tracking systems, communication, RFI/EMC testing, radio transmitters, boosters, and general laboratory testing. Our fully staffed engineering support group is always available to provide expert assistance for any of your special needs relating to design and application issues.

Comtech PST has continued to expand its capabilities through continual improvement of our product offerings, as well as through acquisitions. In recent years, Comtech PST has acquired companies whose product offerings and technology complement our own legacy of solid state amplifier products.

Hill Engineering, a manufacturer of solid state control devices, was acquired by CPST in 2000. This division of CPST provides solid state high power RF switches for integration into many of our power amplifier systems. A stand alone product line of Hill's products can be found on page ____.

Microwave Power Devices, also a manufacturer of solid state power amplifiers since 1967, was acquired by Comtech PST in 2001. The product lines acquired have extensive applications in the commercial satellite, medical, and defense markets.

Through continued investment in improving technologies and strategic acquisitions, Comtech PST has positioned itself as the market leader in solid state power amplifier products and systems.

PRODUCTS AND CAPABILITIES

Comtech PST's focus on making superior solid state amplifiers has led to the development of a versatile and highly reliable product line. Whether your needs include amplifier module building blocks, rack-mounted amplifier units, or complete amplifier systems, our standard and customized solid-state power amplifier products provide the flexible effective solution.

Comtech PST Corp. offers solid-state power amplifiers in frequency ranges from 1 MHz through 3.0 GHz, with output power levels ranging from 5 watts to over 30 kW.

While we offer standard products to serve a variety of markets and applications, at times a custom-designed amplifier may be required. Our highly-skilled engineering staff possesses the knowledge and ability to design and develop cost-effective custom solutions to meet your solid state power amplifier requirements.

CUSTOMER SERVICE

Comtech PST Corp. is, above all, committed to our customer's satisfaction. This responsibility is woven into the corporate fabric with our technical expertise, defined quality standards, and production of versatile and highly reliable solid state amplifiers. Comtech PST's commitment does not stop at delivery.

We have a dedicated customer service staff to continually support all of our products. They are here to satisfy the needs of our customers. This includes performing warranty and out-of-warranty repairs, providing spare parts information, answering equipment installation and operation questions, and providing technical documentation and training as required.

ABOUT COMTECH PST CORPORATION

With the resources and corporate backing of Comtech Telecommunications, you can rest assured that any products you purchase from Comtech PST will be supported for years to come.

QUALITY SYSTEM

Comtech PST Corp. is an ISO9001:2000-certified company. We take seriously the responsibility for maintaining this strict quality standard.

At Comtech PST Corp., we see it as a logical extension of our ongoing commitment to quality. CPST has always had well-established, written practices and procedures assuring complete product integrity throughout all stages of design, manufacture, test and inspection.

ISO 9001 quality system certification of Comtech PST further assures you of consistent and reliable products. The ISO 9001 certification emphasizes the company's commitment to provide our customers with the highest quality solid state power amplifiers.

QUALITY POLICY

Comtech PST Corp. is committed to the continuous pursuit of quality in every aspect of our business. We strive to deliver excellence and will continue to improve our products and services to better satisfy the needs of our customers. Our goal is to deliver on time and every time defect free products and services. We define Quality as meeting customer requirements (both internal and external), including cost and schedules. Each of us is accountable for the quality of the work we do. Our aim is to be the supplier of choice of all our customers.



GENERAL PURPOSE LINEAR AMPLIFIERS Series AM 20-500 MHz 25 Watts

- Frequency Range: 20 MHz to 2 GHz; bandwidths to multi-octave
- Power Output: 2 to 100 watts

Series AM amplifiers are available for operating frequencies from 20 MHz to 2 GHz and output power from 2 to 100 Wat 1 dB compression.

Their design utilizes the most advanced state-of-the-art technologies in RF/microwave power, including combination techniques and component selection of transistors.

CW, AM, FM, Phase and Pulse
Modulation
-20dBc Max
-60dBc Max
2.0:1 Max
Open / Short Circuit Protected,
Unconditionally Stable
10dB Typical
10dBc above the input required to

RF Connectors	SMA Female
Model	
• AM2758	+/-2.0dB
• AM88258	+/-1.5dB
• AM8829	+/-1.5dB
• AM4819	+/-1.0dB
• AM178238	+/-1.0dB

AVAILABLE OPTIONS

• AM17839

ELECTRICAL

- Noise Quiet
 Custom Specifications
- Other Frequency Ranges, Power Levels, Gains and Connectors

achieve P1dB

+/-1.0dB

Model No.	Frequency (MHz)	Powe P1dB	r Out Sat	Gain at P1db (dB min)	Current (amps max)	(in)	H (cm)	(in)	Dime W (cm)	ensions L (in)	(cm)	We (lbs)	igh t (kg)
AM2758-10	20-500	10	15	40	3.35A @ 24Vdc	1.75	4.45	3.625	9.21	6.00	15.24	1.6	0.73
AM2758-25	20-500	25	30	44	7.5A @ 24Vdc	1.62	4.11	3.63	9.21	8.50	21.59	3.20	1.45
AM88258-10	800-2500	10	13	40	7.5A @ 15Vdc	1.06	2.69	6.24	15.85	9.38	23.82	3	1.36
AM88258-30	800-2500	30	34	45				-1	- f II : - f -				
AM88258-50	800-2500	50	55	47		Cai	ii saies	dept fo	r tull into	ormatior	1		
AM8829-5	800-2000	5	6	37	3A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM8829-10	800-2000	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.57	10.68	27.13	1.8	0.82
AM8829-30	800-2000	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM8829-50	800-2000	50	55	47	23.5A @ 15Vdc	1.06	2.69	7.5	19.05	14.4	36.58	6	2.73
AM4819-10	400-1000	10	12	44	5A @ 26Vdc	1.3	3.3	4	10.16	6	15.24	1.5	0.68
AM4819-50	400-1000	50	70	47	11A @ 26Vdc	1.5	3.81	3.75	9.52	11.5	29.21	3.5	1.59
AM178238-10	1700-2300	10	13	40	5.5A @ 15Vdc	1.06	2.69	3.35	8.51	10.68	27.13	1.8	0.82
AM178238-30	1700-2300	30	34	45	14.5A @ 15Vdc	1.06	2.69	7.125	18.1	9.875	25.08	4	1.82
AM17839-10	1700-3000	10	13	40	7.5A @ 15Vdc	1.06	2.69	3.35	8.51	13.25	33.66	2.2	1
AM17839-30	1700-3000	30	33	45	17A @ 15Vdc	1.06	2.69	7.125	15.85	9.875	25.08	4	1.82

Specifications are subject to change without notice.

Series AR amplifiers are rack-mountable units which incorporate the Series AM amplifier in a cabinet containing a built-in universal AC power supply (for models up to 100 watts). Models are available for operation at frequencies from 20 MHz to 2 GHz and output power from 10 to 250 W. They are forcedair cooled by blowers built into the mechanical package. AR models are also available with an

optional IEEE BUS for remote control and

monitoring (ARD version).

GENERAL PURPOSE LINEAR AMPLIFIERS

Series AR



800-2000 MHz 10 Watts

	Frequency	Powe	r Out	Gain at P1db				D	imens	ions				
Model No.	(MHz)	P1dB		(dB min)	KVA		H (in)	(cm)	W (in)	(cm)	L (in)	(cm)	We (lbs)	eight (kg)
AR2758-10	20-500	10	15	40	0.115	į	5.22	13.26	19	48.26	22	55.88	25	11.36
AR2758-25	20-500	25	30	44	0.23		5.22	13.26	19	48.26	22	55.88	30	13.64
AR88258-10	800-2500	10	13	40	0.173		5.22	13.26	19	48.26	22	55.88	25	11.36
AR88258-30	800-2500	30	34	45	0.438	į	5.22	13.26	19	48.26	22	55.88	40	18.19
AR88258-60	800-2500	60	70	47.8	0.645	8	3.72	22.15	19	48.26	26.25	66.68	80	36.36
AR88258-150	800-2500	150	200	52	2.1	РА	12.22	31.04	19	48.26	26.25	66.68	115	52.27
						PS	5.22	3.2	19	5.22	5.22	5.22	5.22	5.22
AR8829-10	800-2000	10	13	40	0.173	Ę	5.22	13.26	19	48.26	22	55.88	25	11.36
AR8829-30	800-2000	30	35	45	0.312		5.22	13.26	19	48.26	22	55.88	35	15.91
AR8829-50	800-2000	50	55	47	0.404		5.22	13.26	19	48.26	22	55.88	40	18.19
AR8829-100	800-2000	100	115	50	0.863	8	3.72	22.15	19	48.26	26.25	66.68	80	36.36
AR1929-250	1000-2000	250	280	54	2.7	РА	10.5	26.67	19	48.26	26.25	66.68	115	52.27
						PS	5.22	13.26	19	48.26	22	55.88	60	27.27
AR4819-10	400-1000	10	15	40	0.173		5.22	13.26	19	48.26	22	55.88	25	11.36
AR4819-25	400-1000	25	30	45	0.404		5.22	13.26	19	48.26	22	55.88	35	15.91
AR4819-50	400-1000	50	55	47	0.404		5.22	13.26	19	48.26	22	55.88	35	15.91
AR178238-10	1700-2300	10	13	40	0.173		5.22	13.26	19	48.26	22	55.88	25	11.36
AR178238-30	1700-2300	30	35	45	0.312		5.22	13.26	19	48.26	22	55.88	35	15.91
AR178238-50	1700-2300	50	55	47	0.404		5.22	5.22	19	19	19	19	19	19
AR178238-100	1700-2300	100	115	50	1.04	3	3.72	22.15	19	48.26	26.25	66.68	80	36.36
AR178238-200	1700-2300	200	225	54	2.54	PA	10.5	26.67	19	48.26	26.25	66.68	109	52.27
						PS	5.22	13.26	19	48.26	22	55.88	30	13.64
AR178238-300	1700-2300	260	300	54.7	1.5	РА	12.22	31.04	19	48.26	26.25	66.68	115	52.27
						PS	5.22	13.26	19	48.26	22	55.88	60	27.27
AR17839-10	1700-3000	10	13	40	0.138		5.22	13.26	19	48.26	22	55.88	25	11.36
AR17839-30	1700-3000	30	35	45	0.312		5.22	13.26	19	48.26	22	55.88	35	15.91
AR17839-50	1700-3000	50	60	47	0.46		5.22	13.26	19	48.26	22	55.88	40	18.19

Specifications are subject to change without notice.

COMTECH PST SOLID STATE HIGH POWER AMPLIFIERS

WIRELESS BAND LINEAR AMPLIFIERS

Series AM Wireless



Series AM cellular amplifiers are available for operating frequencies from 800 to 3000 MHz and output power from 10 to 50 W at 1 dB compression. Their design utilizes the most advanced state-of-theart technologies in RF/microwave power, including combination techniques and component selection of transistors.

ELECTRICAL

RF Input Signals	CW, AM, FM, Phase and Pulse
	Modulation
Harmonics	-20dBc Max
Spurious	-60dBc Max
Input VSWR	2.0:1 Max
Load VSWR	Open / Short Circuit Protected,
	Unconditionally Stable
Noise Figure	10dB Typical
Maximum RF Input	10dBc above the input required to
	achieve P1dB
RF Connectors	SMA Female
Model	
• AM88258	+/-1.5dB
• AM178238	+/-1.0dB
• AM17839	+/-1.0dB

AVAILABLE OPTIONS

Noise Quiet

- Custom Specifications Other Frequency Ranges, Power Levels, Gains and Connectors
- Power Out P1dB Sat Frequency (MHz) Current Model No. P1db Weight (amps max) (dB min) (cm) AM2758-10 20-500 10 | 15 40 3.35A @ 24Vdc 4.45 3.625 9.21 6.00 15.24 1.75 25 | 30 7.5A @ 24Vdc AM2758-25 20-500 44 1.62 4.11 3.63 9.21 8.50 21.59 3.20 1.45 10 | 13 7.5A @ 15Vdc AM88258-10 1.06 | 2.69 | 6.24 | 15.85 | 9.38 | 23.82 800-2500 40 AM88258-30 800-2500 30 | 34 45 Call sales dept for full information 50 | 55 47 AM88258-50 800-2500 AM8829-5 5 37 3A @ 15Vdc 800-2000 1.06 2.69 3.35 8.51 10.68 AM8829-10 800-2000 10 | 13 40 5.5A @ 15Vdc 1.06 2.69 3.35 8.57 10.68 0.82 AM8829-30 800-2000 30 | 34 45 14.5A @ 15Vdc 1.06 2.69 7.125 18.1 9.875 1.82 50 | 55 47 23.5A @ 15Vdc 1.06 2.69 36.58 AM8829-50 800-2000 7.5 19.05 14.4 2.73 10 AM4819-10 400-1000 5A @ 26Vdc 1.3 | 3.3 4 10.16 15.24 AM4819-50 400-1000 50 70 11A @ 26Vdc 1.5 3.81 3.75 9.52 11.5 29.21 10 5.5A @ 15Vdc AM178238-10 1700-2300 1.06 | 2.69 3.35 8.51 10.68 27.13 AM178238-30 30 | 34 14.5A @ 15Vdc 1.06 2.69 1700-2300 45 7.125 18.1 9.875 1.82 10 7.5A @ 15Vdc AM17839-10 1700-3000 1.06 | 2.69 3.35 8.51 13.25 33.66 1700-3000 30 17A @ 15Vdc 7.125 15.85 9.875

Specifications are subject to change without notice.

Series AR amplifiers are rack-mountable units which incorporate the Series AM amplifier in a cabinet containing a built-in universal AC power supply (for models up to 100 watts). Models are available for operation at frequencies from 800 to 3000 MHz and power from 10 to 300 watts. They are forced-air cooled by blowers built into the mechanical package. AR models are also available with an optional IEEE BUS for remote control and monitoring (ARD version).

ELECTRICAL

RF Input Signals	CW AM FM Phase and Pulse
. •	Modulation
Harmonics.	
Spurious	
Input VSWR	
Load VSWR	
	Unconditionally Stable
Noise Figure	10dB Typical
Maximum RF Input	10dBc above the input required to
	achieve P1dB
RF Connectors	Type N Female
	Front or Rear mount available
Model	
• AR2758	
• AR88258	
• AR8829	
• AR4819	
• AR178238	•
• AR17839	
AC Input:	Power Factor Corrected Universal
	AC input 100 - 240Vac, 50/60Hz for
	models up to 100 Watts.
	Power Factor Corrected AC input 200 - 240Vac, 50/60Hz for models
	above 100 Watts. 3 Phase input
	available.
	avallable.

AVAILABLE OPTIONS

- Digital Interfaces available: ETHERNET, RS232, IEEE488
- Noise Quiet, Remote On/Off
- Rack Mounting Slides
- Custom Specifications
- Frequency Range: 800 MHz to 3.0 GHz; bandwidths to multi-octave
- Power Output: 10 to 300 watts
- Universal AC input (Models up to 100 watts)

WIRELESS BAND LINEAR AMPLIFIERS

Series AR Wireless



1700-2120 MHz 300 Watts

Model No.	Frequency Range (MHz)	Power Out (W@1dB)	Dimensions (h x w x ೄ) ⁱⁿ
AR88258-10	800-2500	10	1.06 x 6.24 x 9.38 2.79 x 14.98 x 23.87
AR88258-30	800-2500	30	1.1 x 15 x 9.4 2.79 x 38.1 x 23.87
AR88258-60	800-2500	60	1.1 x 3.4 x 10.7 2.79 x 8.64 x 27.18
AR88258-150	800-2500	150	1.1 x 7.2 x 9.9 2.79 x 18.29 x 25.12
AR178238-10	1700-2300	10	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR178238-30	1700-3000	30	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR178238-50	1700-2300	50	5.25 X 19.0 X 22.0 13.34 x 48.26 x 55.88
AR178238-100	1700-2300	100	8.75 x 19.0 x 26.0 22.23 x 48.26 x 66.04
AR178238-200	1700-2300	200	
AR178198-200	1750-1850	200	12.25 x 19.0 x 26.0 31.12 x 48.26 x 66.04
AR178228-300	1700-2120	300	15.75 x 19.0 x 26.0 40.0 x 48.26 x 66.04
AR17839-10	1700-3000	10	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR17839-30	1700-3000	30	5.25 x 19.0 x 22.0 13.34 x 48.26 x 55.88
AR17839-50	1700-3000	50	8.75 x 19.0 x 22.0 22.23 x 48.26 x 55.88

Specifications are subject to change without notice.

CLASS AB LINEAR AMPLIFIERS

Series BHE



20-2500 MHz 250 Watts



100-500 MHz 100 Watts

- Frequency range 20 to 1000 MHz
- Power output 100 to 1100 W
- AB linear
- Wide bandwidth
- Power output 100 to 1500 W
- AM, FM, CW, pulse & phase modulated signal inputs
- Built-in test diagnostics
- Field-replaceable modules
- Graceful degradation
- High efficiency switching power supplies
- Standard 19" Rack Mount Configuration

Series BHE Amplifiers are arranged in a variety of configurations, depending on the output power requirements and frequency range.

The series BHE wide bandwidths are ideal for multi-octave, frequency-agile systems; Typical applications include:

- EW/ECM systems
- Communication systems
- AM/FM transmitter boosters
- TWT replacement
- RFI/EMI testing
- High power calibration testing

LOAD VSWR PROTECTION:

Series BHE amplifiers provide load VSWR protection via an electronic power output turndown system employing negative feedback techniques. The system is self-correcting as a function of load VSWR to infinity, at any phase angle. The typical response time is 60 µsec. The magnitude of turndown follows the curve shown in Fig. A. Page 10?

INPUT/OUTPUT OVERDRIVE PROTECTION:

A leveling loop system protects the amplifiers from input overdrive signals of up to +8 dB. Under an overdrive condition, the output power is controlled at a level 2 to 10% above the rated output power at normal input level conditions. A power overshoot will be present at the beginning of the overdrive condition, which is a function of the amount of overdrive. Note that this characteristic can be used to obtain a 1 to 3 dB output (or more depending on model) power increase for narrow pulses with a low duty cycle.

ELECTRICAL

Class of Operation	
RF Input Power	
DE L. LO:	output power
RF Input Signals	
	Modulation
Harmonics:	20 -ID - AA
B.W. <one li="" octave<="">B.W. <one li="" octave<=""></one></one>	3UGBC Max
	20dBo May
• Even • Odd	
Spurious	
Input VSWR	
Output Load VSWR	
001p01 L000 V3VVK	2:1, 0.5dB turndown nominal
	infinite, 10dB turndown nominal
	(see plot on this page)
AM Distortion (85% D.O.M.)	
Pulse Rise/Fall Time (typical)	. 10/0 1116/1
• 1.5-30MHz Models	. 500ns
• > 20 MHz Models	
Noise Power Output	-86dBm/Hz typical
·	(model dependant)
Maximum RF Input	+8dBm
RF Connectors	
• Input	
Output	Female Type N or SC, Rear Panel
	(model dependant)
Built-in Test (Models => 500 W)	
Digital Meters	Relative Forward/Reflected Power,
	Module Status, Power Supply
	Current and Voltage
Indicators	
- Drataction	Fault Sense
Protection	Input Overdrive, Graceful
	Degradation, Over voltage,
	Under voltage, Over current
AC Input	orider vollage, Over collern
•	Power Factor Corrected Universal
	Input 100-240Vac, 50/60Hz
• 500 to 1500 W Models	Power Factor Corrected 208, 380
	or 440VAC available, 50/60Hz,
	3 Phase 5 wire (400Hz available)
Efficiency (AC to RF)	

A D Lincou

AVAILABLE OPTIONS

- Digital Interfaces available: ETHERNET, RS422, RS232, IEEE488
- Mechanical or Solid State Switched Filter Assemblies
- Forward/Reflecting Sample Ports
- Relaxed turndown into High Load VSWR available for some models
- AM Leveling Loop
- Noise Quieting
- Remote On/Off
- Other Primary Power (AC or DC)
- Rack Mounting Slides
- Custom Specifications

CLASS AB LINEAR AMPLIFIERS

Series BHE



100-500 MHz 1100 Watts



20-500 MHz 200 Watts

CLASS AB LINEAR AMPLIFIERS

Series BHE

	F	Power				.		t Height		0 l	.•	.	L.J	Com	nbined
Model No.	Frequency (MHz)	Out (W)	KVA	(in)	river (cm)	Power (in)	(cm)	rower (in)	Supply (cm)	Comb Filt (in)			tal ght	We (lbs)	eight (kg)
BHE1637-100	1.5-30	100	1.3			5.22	13.26					5.22	13.26	40	18.19
BHE1637-200	1.5-30	200	1.8			5.22	13.26					5.22	13.26	40	18.19
BHE1637-500	1.5-30	500	2.5			8.72	22.15					8.72	22.15	80	36.36
BHE1637-1000	1.5-30	1000	3.7			8.72	22.15	5.22	13.26			13.94	35.4	165	75
BHE1637-1500	1.5-30	1500	7.5	12.22	31.04			8.72	22.15	12.22	31.04	33.16	84.23	237	107.5
BHE1858-100	100-500	100	1.3			5.22	13.26					5.22	13.26	40	18.19
BHE1858-250	100-500	250	3.3			5.22	13.26					5.22	13.26	40	18.19
BHE1858-500	100-500	500	3.75			8.72	22.15	5.22	13.26			13.94	35.4	185	84.1
BHE1858-1100	100-500	1100	6.8			12.22	31.04	8.72	22.15			20.94	53.19	237	107.5
BHE2718-100	20-100	100	1.7			5.22	13.26					5.22	13.26	40	18.19
BHE2718-200	20-100	200	3.3			5.22	13.26					5.22	13.26	40	18.19
BHE2718-500	20-100	500	3.35			8.72	22.15					8.72	22.15	80	36.36
BHE2718-1500	20-100	1500	8.8			12.22	31.04	8.72	22.15			20.94	53.19	237	107.5
BHE2728-1000	20-200	1000	6.6			8.72	22.15	8.72	22.15			17.44	44.3	237	107.5
BHE2758-100	20-500	100	1.7			5.22	13.26					5.22	13.26	40	18.19
BHE2758-200	20-500	200	2.6			5.22	13.26					5.22	13.26	40	18.19
BHE2758-500	20-500	500	3.5			8.72	22.15	5.22	13.26			13.94	35.4	180	81.82
BHE2758-800	20-500	800	6.5	8.72	22.15	12.22	31.04	8.72	22.15	8.72	22.15	38.38	97.49	400	181.82
BHE22748-100	225-400	100	0.7			5.22	13.26					5.22	13.26	40	18.19
BHE22748-200	225-400	200	2.6			5.22	13.26					5.22	13.26	40	18.19
BHE22748-500	225-400	500	3.2			12.22	31.04					12.22	31.04	110	50
BHE22748-1000	225-400	1000	7.5			12.22	31.04	8.72	22.15			20.94	53.19	237	107.5
BHE4819-100	400-1000	100	0.86			5.22	13.26					5.22	13.26	45	20.45
BHE4819-200	400-1000	200	2			5.22	13.26					5.22	13.26	55	25
BHE4819-500	400-1000	500	4.9			8.72	22.15	5.22	13.26			13.94	35.4	185	84.1
BHE4819-1000	400-1000	1000	7.5			12.22	31.04	8.72	22.15			20.94	53.19	237	107.5
BHC88148-100	850-1450	100	1.3			5.22	13.26					5.22	13.26	40	18.19

Specifications are subject to change without notice.

Series PHE/PHC pulse amplifiers are available in both rack mount and modular configurations, featuring PST's modular construction and rugged design. Amplifiers available from 400MHz through 1600MHz. Module products features basic control and monitor functions. Rack mount products features built in test and optional digital interface. Custom designs available for different frequency ranges and output powers.

PULSE AMPLIFIERS

Series PHE/PHC



1000 MHz 150 Watts

AVAILABLE OPTIONS

- Forward/ Reflecting Sample Ports
- Pulse Width and Duty Factor Input Protection
- Custom Control and Monitoring Configurations
- Rise/Fall time and Spectrum Containment Pulse Shaping
- Digital Interfaces available: ETHERNET, RS422, RS232, IEEE488 Remote On/Off
- Other Primary Power (AC or DC)
- Custom Specifications
- Internal Modulator
- Rack Mounting Slides

TYPICAL APPLICATIONS:

• Radar • TACAN/DME/IFF

Output.

ELECTRICAL			
Class of Operation	. AB or C (model dependant)	 Rack Mo 	unt
RF Input Power	. +10dBm for full output power		Input
	(0dBm available)		Output
RF Input Signals	Pulse Modulation	Built in Test	
Input VSWR	. 2.0:1 nominal	(rack mou	nt models)
Output Load VSWR		• Indicate	ors
Series PHE	. 1.3:1: full forward power output		
	2:1: 0.5dB turndown nominal	 Protecti 	ion
	infinite: 10dB turndown nominal		
Series PHC	. Circulator Protection		
Maximum RF Input	. +18dBm or 8dBm		
RF Connectors	(model dependant)	AC Input	
 Modules 			
Input	. Female SMA		

Female SMA, TNC, or N (model dependant)

		Female Type N, Rear Panel Female Type N or SC, Rear Pan
	Oulpul	remale type is of 3C, Real Fall
Built in Test		(model dependant)

1030 MHz 2.5 Watts

Power On, Thermal Overload, Fault Sense . Load VSWR, Thermal Overload, Input Overdrive, Graceful Degradation, Over voltage, Under voltage, Over current . Power Factor Corrected Universal Input 100 – 240Vac, 50/60Hz Power Factor Corrected 208, 380 or 440VAC available, 50/60Hz, 3 Phase 5 wire (400Hz available)

ı		Frequency	Power Out	Pulse	Duty Factor	Rise/Fall		(nsions r amp)				bined
	Model No.	(MHz)	(peak	Width (max)	(%	Time (max)	Heig	ht	Wi	dth	Le	ngth		eight (kg)
			watts min)		max)		(in)	(cm)	(in)	(cm)	(in)	(cm)		. 3,
	NODULES HC427457-500	430 - 450	500	2ms	10	200ns/200ns	A 4.25	10.8	6.47	16.43	11.95	30.35	7.41	3.37
Р	HC427457-520	420 - 450	520	100us	10	200ns/200ns	1.32	3.35	6	15.24	11.5	29.21	4.31	1.96
Р	HC1037-2500	1030	2500	В	В	100ns/100ns	1.28	3.25	6.74	17.12	8.5	21.59	3.6	1.64
Р	HC1037-4000	1030	4000	В	В	100ns/100ns	1.28	3.25	6.74	17.12	8.5	21.59	3.83	1.74
	ACK MOUNT PHED5819-1000	500-100	1000	100us	4	40ns/40ns	8.72	22.15	19	48.26	26.25	66.68	165	75
В	PHC968129-3000	960-1215	3000	4us	5	2us/2us	8.72	22.15	19	48.26	21.5	54.61	130	59.1
Р	HC19-150	1000+/-10	150	lus	5	50ns/50ns	5.22	13.26	19	48.26	14.5	36.83	25	11.36
Р	HC1039-1000	1030 & 1090	1000	800ns	0.03	100ns/100ns	5.22	13.26	17	43.18	14.5	36.83	80	36.36
C	PHC1030-6400	1030	6400	800ns	0.036	150ns/150ns	10.47	26.59	19	48.26	18	45.72	44	20

A Size includes: Heat Sink and Mounting Flange

B IFF Compliant: MODES 1, 2, 3, 4, MODE-S, Short Message, and MODE-5 Long Message 32us MODE-S Available Units are specified for military aircraft enviroment

Specifications are subject to change without notice.

MEDICAL PRODUCTS

Series SSPA



SSPA 2997-300



SSPA2856-240

- Internal Frequency Synthesizer
- AFC Control
- 17dB Min Output Power Control
- Elapsed Time Meters
- Front Panel Power Meter

The SSPA series of amplifiers operate in S-Band with power levels up to 300 watts peak. These Class 'C' amplifiers are designed for maximum power output and maximum AC to RF efficiency with minimal size. Typically used as driver amplifiers for Klystron PA's within a Linear Accelerator.

ELECTRICAL

2856 +/- 3MHz (1)
2998 +/- 3MHz (2)
240 Peak Watts (1)
300 Peak Watts (2)
0.18us Max
10:1 Max, Circulator Protected
Female Type N, Rear Panel
Female BNC, Rear Panel
MTBF 20,000 Hours
110 or 240Vac, 50/60Hz, 1 Phase

- (1) Model SSPA2856-240 includes ETHERNET Control/Status, Digital ALC Loop, 0.1dB Output Power Control via Front Panel, ETHERNET or external resistor
- (2) Model SSPA2997-300 includes 0 10Vdc Analog Frequency Control, Digital Status/Power Meter, 25dB Output Power Control

AVAILABLE OPTIONS

- Interfaces available: ETHERNET, RS422, RS232, CAN
- Internal Pulse Trigger
- Pulse to Pulse Power Control over 6dB range in 0.1dB steps
- Pulse to Pulse Width Control over 2.5us to 12.5us range in 250ns steps
- Other Operating Frequencies, Power Levels
- Custom Specifications

APPLICATIONS

- Oncology Treatment
- Electronic Pasteurization
- X-Ray Cargo Inspection

Model No.	Frequency	Power Out (peak	Pulse Width	Duty Facto		н	١	Dimer V	isions L		We	ight
	(MHz)	watts min)	(us max)	(% max)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(lbs)	(kg)
SSPA2856-240	2856 +/- 3MHz	240	3us to 13us	0.5%	3.468	8.81	19	48.26	16.6	41.16	12	5.45
SSPA2997-300	2997 +/- 3MHZ	300	2.5us to 12.5us	0.5%	8.72	22.15	11.75	29.85	16.38	41.61	27	12.27

Specifications are subject to change without notice.

The Satcom series of airborne amplifiers operate over the INMARSAT frequency Range of 1626.5 to 1660.5 MHz. Their designs utilizes linear amplifier technology (class AB) for amplification of multiple input carriers. These amplifiers provide the lowest distortion (IMD) with the highest efficiency possible. Their light weight and compact size make them suitable for airborne applications where weight and size are essential.

ELECTRICAL

Frequency Range Output Power	
Intermodulation	
Class of Operation	
Output Power Reporting	
Gain	
RF Input Overdrive	
RF Input Low Level Detection	
RF Input Range	
Gain Stability/Variation	
·	Time
AM/PM Conversion	
Spurious	
	-83 dBc 1530 MHz to 1559 MHz
Harmonics	
	-55 dBc Max. 5,000 to 18,000 MHz
Noise Figure	
Input VSWR	
Load VSWR	
	into any VSWR
AC Input Heat Dissipation	
Cooling	
Control/Status	
Corniol/statos	VSWR Reporting
	Individual Device Failure
	Internal Shutdown
	Temperature Reporting
	Transmit Enable
Weight	
Size	
MTBF	
Construction	
Qualification	
Temperature	
Altitude	
Specifications are subject to c	hanae without notice.

Specifications are subject to change without notice.

- ARINC 429 compatible (60W Model)
- Linear operation (Low IMD)
- RTCA DO-160 D Qualified

SATELLITE PRODUCTS



Series SATCOM

BME 1667-25



BHED 1667-25

Temperature

Altitude.....

	ВПЕД 100/-25
ELECTRICAL	
Frequency Range	1626.5 to 1660.5 MHz
Output Power	25W CW ±0.5dB
Intermodulation	
Class of Operation	
Output Power Reporting	±1.0 dB
Gain	34 ±3 dB
RF Input Overdrive	+10 dBm
Gain Stability/Variation	±1.0 dB Frequency, Temperature
	Time
Remote Muting	Muted Power, < -41.5 dBw
AM/PM Conversion	
Spurious	
	-83 dBc 1530 MHz to 1559 MHz
Harmonics	50 dBc Max. 0-5,000 MHz
	-55 dBc Max. 5,000 to 18,000 MHz
Noise Figure	
Input VSWR	
Load VSWR	2:1 any Phase. Fully Protected
into any VSWR	
DC Input	+25V dc @ 6 Amps Max.
	+15V dc @ 500 ma Max.
	-15V dc @ 200 ma Max.
	+5V dc @ 100 ma Max.
	115W at 25W RF Output
Cooling	External Force Air
Control/Status	Output Power Reporting
	VSWR Reporting
	Internal Shutdown
	Temperature Reporting
	Transmit Enable
Weight	
MTBF	
	Field Replaceable Modules
Qualification	

COMTECH PST SOLID STATE HIGH POWER AMPLIFIERS

. -40 to +70°C .. 55,000 feet

CUSTOM DESIGN CAPABILITIES Integrated RF Assembly



Airborne Booster Amp 225-400MHz 200 Watts



20-512MHz, 1 kW Mobile Jammer

While the standard products we offer are suitable for most applications, there are times when a custom design is required as a solution. Comtech PST has the background and experience to design, manufacture, and deliver a complete custom solution to meet your requirement. Let our vast technical engineering expertise help you with your application.

Listed below and on the next page are several examples of custom designs and applications.

COMMUNICATIONS

Applications include Secure Digital Radio,
Airborne Boosters, Integrated RF Assemblies, and
High Power Communications Radio Boosters.

COMMUNICATIONS JAMMERS / CONVOY PROTECTION

Comtech PST's amplifiers are utilized to counter the threat of improvised explosive devices, as well as for other communications jamming applications. Platforms include fixed sites, airborne and ground-based mobile jamming.



CLASS C AMPLIFIERS

Comtech PST has extensive experience in the design and manufacture of Class C amplifiers, which allow for maximum efficiency (AC to RF) for transmission of both frequency and phase-modulated carriers. Also available in weather-proof designs.

PCS / DCS / UMTS AMPLIFIERS

Designed in both single and dual band configuration, available in both module and rack-mountable form.

RADAR

Comtech PST has designed amplifiers and systems for several types of radar applications, including Airborne and Shipborne radars, IFF interrogation, synthetic aperture radar, and over-the-horizon radar.

WATTMETER CALIBRATION

Comtech PST has previously designed and manufactured several systems for use in wattmeter calibration.

Comtech PST possesses the experience and knowledge to help you find a solution to your requirements.

For more information on these products, as well as new product offerings, or to locate a sales representative in your area, please visit our website, www.comtechpst.com.

Contact a member of our sales staff today at +1 (631) 777-8900, or via e-mail at sales@comtechpst.com.

CUSTOM DESIGN CAPABILITIES



2025-2120MHz 250 Watts (Weather-Proof Design)



Dual 2110-2170MHz 100 Watts



1-500MHz 500 Watts



SAR Module 400-450MHz 500 Watts

HIGH POWER SWITCHES AND LIMITERS



The switches listed below are our standard module MIC high power diode switch designs. Typical applications include antenna selection, transmit/receive, polarity switches, receiver protection, switch filters, switch-limiters and switched fixed attenuators. Standard module designs are for reflective, cold-switched usage. Certain parametric restrictions may apply to your application. Other options such as straddle-band operation, hot switching, absorptive (matched) ports, position indicators and fail-safe or latching are available.

RF SWITCHES

Model No.	Frequency (MHz)	Config.	Power Peak (watts)	Power Average (watts)	Speed (uS)	Isolation (dB)	Insertion Loss (dB)	Bias (V DC)	Connector Type
VH20-180	20-100	T/R	1300	1300	40	30/60	0.25	+5 & +28	TYPE NF
VH40-182	20-100	1P4T	1300	1300	40	40	0.3	+5 & +28	TYPE NF
VH20-280	20-500	T/R	500	500	40	30/60	0.5	+5 &+28	TYPE NF
H21-102	100-1000	T/R	500	100	7	20/50	0.7	+5 & -70	SMAF
UH21-201	100-500	T/R	800	800	40	30/60	0.45	+5 & +28	TYPE NF
UH22-301	500-1000	T/R	500	500	40	30/60	0.5/1	+5 & +28	TYPE NF

MICROWAVE SWITCHES

Model No.	Frequency (GHz)	Config.	Power Peak (watts)	Power Average (watts)	Speed (uS)	Isolation (dB)	Insertion Loss (dB)	Bias (V DC)	Connector Type
H22-103	0.5-2	T/R	10000	80	1.5	20/50	0.7	+5 & -50	SMAF
H22-200	1-2	1P2T	2000	80	1.5	40	1	+5 & -50	SMAF
H42-400	0.5-2	1P4T	1000	80	1.5	40	2.3	+5 & -50	SMAF
H22-202	2-4	1P2T	2000	80	1.5	40	1.2	+5 & -50	SMAF
H42-401	2-4	1P4T	2000	80	1.5	40	2.5	+5 & -50	SMAF
H23-203	4-8	1P2T	2000	80	1.5	40	1.3	+5 & -50	SMAF
H43-403	4-8	1P4T	2000	80	1.5	40	1.9	+5 & -50	SMAF
H24-204	8-12	1P2T	2000	80	1.5	40	1.5	+5 & -50	SMAF
H44-404	8-12	1P4T	2000	80	1.5	40	2.5	+5 & -50	SMAF
H25-205	12-18	1P2T	2000	80	1.5	40	1.8	+5 & -50	SMAF
H45-405	12-18	1P4T	2000	80	1.5	40	2.9	+5 & -50	SMAF
H26-206	6-18	1P2T	2000	80	1.5	40	2.5	+5 & -50	TNCF
H46-406	6-18	1P4T	2000	80	2	40	3.4	+5 & -50	TNCF

MICROWAVE LIMITERS

Model No.	Frequency (GHz)	Pulse Width (uS)	Power Peak (watts)	Power Average (watts)	Recovery Time (uS)	Flat Leakage (dBm)	Spike Leakage (erg)	Insertion Loss (dB)	Connector Type
HL2-235	.5-4	20	1000	50	5	18	0.5	1.1	SMAF
HL3-236	4-18	20	100	25	5	18	0.5	1.7	SMAF

For Environmental Specifications, see page 18, Table 3. Specifications are subject to change without notice.

HIGH POWER SWITCHES AND LIMITERS

COMPACT 20-500MHz HIGH POWER PIN DIODE SWITCH

These compact high power switches are built on a ceramic substrate in a thermally efficient aluminum package. The package size is 3" x 2.3" x 1.5". Typical applications include T/R switches, filter switches, and antenna or amplifier selection diversity switches for radar, radios, and COMMJAM systems.

COMPACT 20-500MHz HIGH POWER PIN DIODE SWITCHES

Model No.	Frequency (MHz)	Config	Power Peak (watts)	Power Average (watts)	Pulse Width (µS)	Loss (dB)	Isolation (dB)	Speed to 0.5 dB (µS)
M20-027	20-500	SP2T	150	150	CW	0.6	40	20
M20-030	20-500	SPDT/TR	500	250	100	0.5	40/50	15
M20-033	30-400	SP2T	150	150	CW	0.5	34	20
M20-034	225-450	SP2T	500	200	150	0.5	25	15
H20-001	400-500	SP2T	1000	120	15	0.45	30	6
M20-035	20-500	SP2T	250	120	80	0.55	25	10

RECEIVE POWER 1P2T DIODE SWITCHES

These switches are our standard MIC diode switch designs. Custom variations include connectors, size and shape modifications, higher power handling, faster switching, BIT and position sense.

Model No.	Frequency (MHz)	Speed (µS)	Matched Outputs	Power CW (watts)	VSWR (Typ.)	Isolation (dB)	Bias (VDC)	Insertion Loss (dB)	Connector Type
R20-201	20-100	2	NO	1	1.2:1	60	+5, -15	0.25	SMAF
R20-202	20-100	2	0.1W	1	1.4:1	60	+5, -15	0.3	SMAF
R21-201	20-500	2	NO	1	1.5:1	50	+5, -15	0.5	SMAF
R21-102	100-1000	2	NO	1	1.6:1	60	+5, -15	0.7	SMAF
R21-202	100-500	2	0.1W	1	1.5:1	60	+5, -15	0.45	SMAF
R22-201	500-1000	2	NO	1	1.4:1	60	+5, -15	0.6	SMAF

MICROWAVE SWITCHES

Model No.	Frequency (GHz)	Speed (nanosec)	Matched Outputs	Power CW (watts)	VSWR (Typ.)	Isolation (dB)	Bias (VDC)	Insertion Loss (dB)	Connector Type
R22-301	0.5-2	100	NO	1	1.5:1	60	+5, -12	0.25	SMAF
R22-301	0.5-2	100	0.1W	1	1.6:1	60	+5, -12	1.3	SMAF
R22-202	0.5-18	100	NO	1	2.2:1	55	+5, -12	3.0	SMAF
R22-301	2-12	100	NO	1	1.7:1	60	+5, -12	2.0	SMAF
R22-302	2-12	100	0.1W	1	1.7:1	60	+5, -12	2.3	SMAF
R22-401	2-18	100	NO	1	1.8:1	60	+5, -12	2.7	SMAF
R22-402	2-18	100	0.1W	1	1.8:1	60	+5, -12	3.0	SMAF

SURFACE MOUNT HIGH POWER PIN DIODE SWITCHES

These tiny high power switches are built on ceramic substrate in our unique Therm-Master™ surface mount package. The package size is 0.54" x 0.66" x 0.14". Typical applications include T/R switches, and antenna or amplifier selection diversity switching in radars, radios, IFF, data links, and GSM or CDMA base stations.

Model No.	Frequency (MHz)	Config	Power Peak (watts)	Power Average (watts)	Pulse Width (µS)	Loss (dB)	Isolation (dB)	Speed to 0.5 dB (nanosec)
ADS22-149	900-1800	SPDT	1000	60	7	0.7	30	600
ADS22-151	1025-1095	SPDT	900	27	34	0.55	25	330
ADS42-409	500-1400	SP4T	300	30	6	0.6	34	500
ADS42-410	960-1215	SP4T	500	50	13	0.5	25	440
ADS41-421	400-500	SP4T	100	25	40	0.4	20	500
ADS20-450	500-1000	SPDT	6	6	100	0.5	25	150

ENVIRONMENTAL & CONVERSION CHARIS

POWER - CONVERSION CHART

dBm (mW)	dBm (W)			
-20 = .010	+20 = .100			
-19 = .012	+21 = .120			
-18 = .016	+22 = .159			
-17 = .020	+23 = .200			
-16 = .025	+24 = .251			
-15 = .032	+25 = .316			
-14 = .040	+26 = .398			
-13 = .050	+27 = .501			
-12 = .063	+28 = .631			
-11 = .079	+29 = .794			
-10 = .100	+30 = 1.00			
-9 = .130	+31 = 1.26			
-8 = .160	+32 = 1.59			
-7 = .200	+33 = 2.00			
-6 = .250	+34 = 2.55			
-5 = .316	+35 = 3.16			
-4 = .398	+36 = 3.91			
-3 = .501	+37 = 5.01			
-2 = .63	+38 = 6.31			
-1 = .794	+39 = 7.94			
0 = 1.00	+40 = 10.0			
+1 = 1.25	+41 = 12.6			
+2 = 1.58	+42 = 15.8			
+3 = 2.00	+43 = 20.0			
+4 = 2.51	+44 = 25.1			
+5 = 3.16	+45 = 31.6			
+6 = 3.98	+46 = 39.8			
+7 = 5.01	+47 = 50.1			
+8 = 6.30	+48 = 63.1			
+9 = 7.94	+49 = 79.4			
+10 = 10.0	+50 = 100			
+11 = 12.6	+51 =126			
+12 = 15.8	+52 = 158			
+13 = 19.9	+53 = 200			
+14 = 25.1	+54 = 251			
+15 = 31.6	+55 = 316			
+16 = 39.8	+56 = 398			
+17 = 50.1	+57 = 501			
+18 = 63.1	+58 = 631			
+19 = 79.4	+59 = 794			
	+60 = 1KW			

ENVIRONMENTAL - TABLE 1 (MODULES)

	operating	0°C to 71°C, baseplate
	Non-operating	
Alti	tude:	
• (Operating	10,000 feet
• 1	Non-operating	40,000 feet
	nidity	
Sho	ock & Vibration	Normal conditions encountered
		in truck transportation

ENVIRONMENTAL - TABLE 2 (RACK MOUNTED)

Temperature:	-
Operating	0°C to 50°C, ambient
Non-operating	-40°C to + 85°C
Altitude:	
Operating	10,000 feet
Non-operating	40,000 feet
Humidity	95% non-condensing
Shock	MIL-STD-810C, method 516.2,
	procedure I, 15G, 11 msec 1/2 sine
Vibration	MIL-STD-810C, method 514.2,
	procedure VIII, curve V, 1hr/axis

ENVIRONMENTAL - TABLE 3 (SWITCHES/LIMITERS)

Operating Temp Range	0° to +60°C (Baseplate)
Storage	-55° to +85°C
Vibration & Shock	Ground Transport
Burn-in	48 Hrs at +60°C minimum
Altitude	15,000 feet

EFFECT OF VSWR ON TRANSMITTED POWER

VSWR	Return Loss (dB)	Trans Loss (dB)	Volt Refl. Coeff.	Power Refl. (%)	Power Trans (%)
1.00	00	.000	.00	.0	100.0
1.01	46.1	.000	.00	.0	100.0
1.02	40.1	.000	.01	.0	100.0
1.03	36.6	.001	.01	.0	100.0
1.04	34.2	.002	.02	.0	100.0
1.05	32.3	.003	.02	.1	99.9
1.06	30.7	.004	.03	.1	99.9
1.07	29.4	.005	.03	.1	99.9
1.08	28.3	.006	.04	.1	99.9
1.09	27.3	.008	.04	.2	99.9
1.10	26.4	.010	.05	.2	99.8
1.11	25.7	.012	.05	.3	99.7
1.12	24.9	.014	.06	.3	99.7
1.13	24.3	.016	.06	.4	99.6
1.14	23.7	.019	.07	.4	99.6
1.15	23.1	.021	.07	.5	99.5
1.16	22.6	.024	.07	.5	99.5
1.17	22.1	.027	.08	.6	99.4
1.18	21.7	.030	.08	.7	99.3
1.19	21.2	.033	.09	.8	99.2
1.20	20.8	.036	.09	.8	99.2
1.25	19.1	.054	.11	1.2	98.8
1.30	17.7	.075	.13	1.7	98.3
1.40	15.6	.122	.17	2.8	97.2
1.50	14.0	.177	.20	4.0	96.0
1.60	12.7	.238	.23	5.3	94.7
1.70	11.7	.302	.26	6.7	93.3
1.80	10.9	.370	.29	8.2	91.8
1.90	10.2	.440	.31	9.6	90.4
2.00	9.50	.512	.33	11.1	88.9
3.00	6.00	1.24	.50	25.0	75.0
4.00	4.40	1.93	.60	36.0	64.0
5.00	3.50	2.55	.67	44.4	55.6
10.0	1.70	4.80	.82	66.9	33.1
20.0	.900	7.41	.90	81.9	18.1

PROTOCOLS

These are the current hardware protocols used for remotely controlling any of our products, some are standard, some optional. Other customer specified interfaces can also be

implemented.

- Ethernet (TCP/IP, UDP, HTTP, SMTP)
- IEEE-488
- RS-232
- RS-485
- RS-422 (Serial)
- RS-422 (Discrete)

APPLICATIONS

Comtech develops control applications for both inhouse and customer specified use. These applications work in conjunction with our many ATE Test Stations.

- National Instruments Measurement Studio
- National Instruments LabView
- National Instruments CVI
- Visual Basic
- C
- C++
- JAVA
- HTML
- Hewlett Packard VEE

LRU FEATURES

Listed below are standard features within our productline. This list can be expanded upon, based on specific customer requirements.

- Filter/Band Switching,
- Transmitted Power Monitoring,
- Transistor/Module Current Monitoring
- Thermal, Overcurrent, VSWR, ...etc Fault Detection.
- Power Control
- Modulation Selection, AM, FM, SSB, ...etc.
- Transmit/Receive modes
- Noise Quiet
- Standby/ Operate

TECHNOLOGIES

Comtech employs a broad range of the latest technologies within their product line

- ATE
- CPLD's
- Embedded Ethernet
- Digital ALC
- Fast Frequency Hopping Controls
- Fiber Optic Links

COMTECH/PST DIGITAL DESIGN AND SOFTWARE DEVELOPMENT CAPABILITIES

All of our rack-mounted amplifier systems are available with all of today's remote control interface options. This allows seamless integration with your automated test or remote applications.

We offer the following interfaces for remote control of our equipment: IEEE-488, RS-232, RS-422 and RS-485. In addition, custom parallel or serial interfaces may also be incorporated based on your specific application. Comtech PST can now offer our new Ethernet interface with TCP/IP stack. Configure your amplifier with an IP address and use an application similar to the one shown below, and give your system "Internet Appliance" capability. This feature allows for monitoring and control of our amplifier systems over the Internet.

Working in conjunction with these remote control protocols, our Software Development group can design custom PC applications to make your testing and/or control requirements totally automated, featuring control, data acquisition, analysis and presentation.

For further information on Comtech PST's products and custom design capabilities, please visit our website, or contact us directly.

www.comtechpst.com

Solid State Power Amplifiers (631) 777-8900 sales@comtechpst.com

Solid State Control Devices (978) 887-5754 sales@hilleng.com





Comtech PST Corporation 105 Baylis Road Melville, NY 11747 USA

Telephone: +1 (631) 777-8900 Fax: +1 (631) 777-8877

E-mail: sales@comtechpst.com Web: www.comtechpst.com Comtech PST Corp./Hill Engineering 417 Boston Road Topsfield, MA 01983

Telephone: +1 (978) 887-5754

Fax: +1 (978) 887-7244 E-mail: sales@hilleng.com Web: www.comtechpst.com

