

CROSS TECHNOLOGIES, INC.

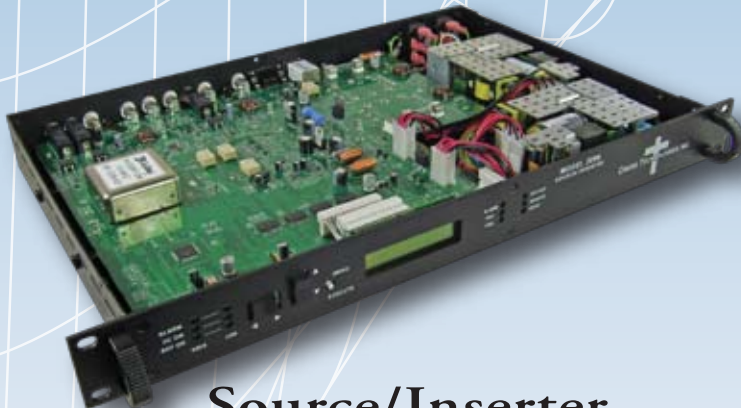
Frequency Converters and More... Since 1994



**Weatherized/Multi-Band
Frequency Converters**



**Multi-Channel
Up/Downconverters
and AGC Amplifiers**



**Source/Inserter
24/48 VDC Redundant**



Frequency Converters



Protection Switches



**Power Supplies
Sources, Inserter**



Frequency Sources

Frequency Converters ♦ Switches ♦ Precision Sources ♦ Splitters/Combiners ♦ Power Supplies

Multi-Channel Solutions

Multi-Channel L-Band UP/Downconverters

- Multi-function Push Button Switches
- Ethernet with Web Browser & SNMP
- 1:1 Redundant Power
- 70 MHz or 140 MHz or Dual 70/140 MHz IF
- 4, 3, 2, & 1 Channel Configurations Available



AGC/MGC IF Amplifiers

- Multi-function Front Panel Switches
- Ethernet with Web Browser & SNMP
- 1:1 Redundant Power
- 4, 3, 2, & 1 Channel Configurations Available

Multi-Channel Up or DownConverters

MODEL	Band	Channels	Up/Down	IF In/Out	RF In/Out	Step Size	Remote M&C	Price
2416-402	L-Band	4	Down					\$7,395
2416-302	L-Band	3	Down	70 ±18 MHz		1 MHz Std.	RS232/485/422	\$5,995
2416-202	L-Band	2	Down	or	950 MHz	Optional	Optional: Ethernet	\$4,595
2416-102	L-Band	1	Down	140 ±36 MHz	to	125 KHz	with Web Browser	\$3,195
2415-402	L-Band	4	Up	or	2150 MHz	100 KHz	or SNMP, or	\$8,395
2415-302	L-Band	3	Up	BOTH 70/140		or	TCP/IP Direct	\$6,895
2415-202	L-Band	2	Up	User Selectable		1 KHz		\$5,395
2415-102	L-Band	1	Up					\$3,895

Multi-Channel AGC/MGC IF Amplifiers

MODEL	Band	Channels	Input Range	Gain Range	Remote M&C	Price
2412-408	50 to 200 MHz	4	-35 to 0 dBm	0 to 45 dB	RS232/485/422	\$3,095
2412-308	50 to 200 MHz	3	-35 to 0 dBm	0 to 45 dB	Optional: Ethernet with	\$2,795
2412-208	50 to 200 MHz	2	-35 to 0 dBm	0 to 45 dB	Web Browser or SNMP,	\$2,495
2412-108	50 to 200 MHz	1	-35 to 0 dBm	0 to 45 dB	or TCP/IP Direct	\$2,195

Frequency Converters/Agile



Agile UpConverters

MODEL	BAND	RF Range (GHz)	IF Freq. (MHz)	IF BW (MHz)	Frequency Steps/Hz	Gain Range/db (dbc/Hz)	10 KHz \emptyset Noise/dBc/Hz	Price
2015-75	UHF	0.25-0.75	70	36	1M	-10 to +30	-85	\$3,495
2015-02	L	0.95-2.15	70	36	1M	-10 to +30	-80	\$3,295
2015-04	L	0.95-2.15	140	72	1M	-10 to +30	-90	\$3,495
2015-25	S	2.0-2.5	70	36	1M	-10 to +30	-80	\$3,495
2015-26	S	2.0-2.5	140	72	1M	-10 to +30	-80	\$3,695
2015-146	S	2.0-2.5	140	72	125K	-10 to +30	-88	\$6,595
2015-58	C	5.85-6.425	70	36	125K	-0 to +20	-80	\$4,795
2015-61	C	5.85-6.425	70	36	1K	+10 to +30	-85	\$6,645
2015-145	Ku	14.0-14.5	70	36	125K	0 to +20	-80	\$6,395

Agile Downconverters

MODEL	BAND	RF Range (GHz)	IF Freq. (MHz)	IF BW (MHz)	Frequency Steps/Hz	Gain Range (db)	10 KHz \emptyset Noise/dBc/Hz	Price
2016-75	L	0.25-0.75	70	36	1K	0 to +50	-90	\$3,395
2016-02	L	0.95-2.150	70	36	1M	0 to +50	-80	\$3,195
2016-22	L	0.95-2.150	70	36	1K	0 to +50	-90	\$5,995
2016-25	S	2.0-2.5	70	36	1M	0 to +50	-80	\$3,395
2016-26	S	2.0-2.5	140	72	1M	0 to +50	-80	\$3,595
2016-35	C	3.400-4.20	70	36	125K	+30 to +50	-88	\$5,195
2016-37	C	3.625-4.20	70	36	125K	+30 to +50	-80	\$4,695
2016-107	C	10.7 - 11.7	70	36	1K	+30 to +50	-80	\$6,395
2016-117	Ku	11.7-12.2	70	36	125K	+30 to +50	-80	\$6,395

Agile Up/Down Converter Combos

MODEL	BAND	RF Range (GHz)	IF Freq. (MHz)	IF BW (MHz)	Frequency Steps/Hz	Gain Range/db (dbc/Hz)	10 KHz \emptyset Noise/dBc/Hz	Price
2017-81	UHF	0.81-0.990	70	36	1M	-10 to +30	-85	\$4,195
2017-95	UHF	0.25-.950	70	36	1M	-10 to +30	-80	\$4,695
2017-03	L, L	0.95-1.525	70	36	1M	L-Band	-85	\$4,195
2017-04	L, L	0.95-2.150	140	72	1M	L-Band	-85	\$5,095
2017-35	S, UP	2.0-2.5	70	36	1M	-10 to +30	-80	\$4,695
	L, DN	0.95-1.525	70	36	1M	0 to +50	-80	
2017-65	C, UP	5.85-6.425	70	36	1M	0 to +30	-80	\$7,495
	C, DN	3.625-4.20	70	36	1M	+30 to +50	-80	
2017-74	C, UP	6.70-7.025	70	36	1M	-10 to +20	-80	\$7,495
	C, DN	4.50-4.80	70	36	1M	+30 to +50	-80	

Frequency Converters/Block



Frequency Translators

MODEL	Trans-lation	Invert or Non-Invert	In Range (MHz)	Out Range (MHz)	Band-width/Hz	Freq. Steps (Hz)	Gain Range/db	10 KHz \emptyset Noise/dBc/Hz	Price
2083-714A IF to IF	70 > 140	Non-Invert	70	110-170	36	1M	-10 to 0	-85	\$3,295
	140 > 70	Non-Invert	110-170	70	36	1M	-10 to 0	-85	
2083-22 UHF to L	U > L	Non-Invert	225-295	950-1020	70	FIXED	-10 to +30	-80	\$3,495
2083-158 L to UHF	L > U	Non-Invert	950-1450	250-750	500	FIXED	AGC	-85	\$7,695
2083-228 L to UHF	L > U	Non-Invert	1650-2150	250-750	500	FIXED	AGC	-85	\$7,695
2083-1205 IF to IF	L > U, LO	Non-Invert	950-1200	250-500	250	FIXED	0 to +20	-85	\$3,495
	L > U, HI	Non-Invert	950-1200	500-750	250	FIXED	0 to +20	-85	
2083-0703 L to L	UHF > UHF	Invert	720	370	150	FIXED	0 to +20	N/A	\$2,895
2083-1721 L to L	L > L	Non-Invert	1350-1700	1800-2150	350	FIXED	0 to +20	-80	\$3,495
2083-2215 Dual L > L	L > L L > L	Invert	1725-2175	950-1400	450	FIXED	0	-80	\$3,195
2083-1222 Dual L > L	L > L, HI	Invert	950-1200	1650-1900	250	FIXED	0 to +20	-85	\$2,895
	L > L, HI	Invert	950-1200	1900-2150	250	FIXED	0 to +20	-85	
2116-6T4 C to C	C > C	Non-Invert	5845-6425	3620-4200	580	FIXED FIXED	-30, -50	-90	\$4,995
2116-14T12 Ku to Ku	Ku-Ku	Non-Invert	14,000-14,500	11,700-12,200	500	FIXED FIXED	-30, -50	-90	\$4,995

Block Upconverters

MODEL	BAND	RF Out (GHz)	RF In (GHz)	Lo Freq. (MHz)	Gain (dB)	10 KHz \emptyset Noise dBc/Hz	Price
2115-58	C	5.85 - 6.425	0.95 - 1.525	7.375	20	-85	\$4,495
2116-114	Ku	11.45 - 12.25	0.95 - 1.75	10.5	20	-85	\$5,095
2115-140	Ku	14.0 - 14.5	0.95 - 1.45	13.05	20	-85	\$5,095
2115-202	Ka	19.7 - 20.2	UHF, L-Band	18.05	0	-85	\$12,995
2115-222	Ka	21.35 - 22.35	2.5 - 3.5	18.85	0	-85	\$6,995

Block Downconverters

MODEL	BAND	RF In (GHz)	RF Out (GHz)	Lo Freq. (MHz)	Gain (dB)	10 KHz \emptyset Noise dBc/Hz	Price
2116-34	C	3.4 - 4.2	0.95 - 1.75	5.15	35	-85	\$4,495
2116-72	X	7.25 - 7.75	0.95 - 1.45	6.3	35	-85	\$4,995
2115-117	Ku	11.7 - 12.75	0.95 - 2.00	10.75	35	-85	\$5,095
2116-137	Ku	13.75 - 14.5	0.95 - 1.70	12.8	35	-85	\$5,095
2116-184	Ka	17.3 - 18.4	0.95 - 2.05	16.35	25	-85	\$6,495
2116-222	Ka	21.35 - 22.35	2.5 - 3.5	18.85	20	-85	\$6,995

Frequency Converters/Multi-Band



Multi-Band Block Converters

MODEL	Up/Down or Translator	Band #	Band Conversion	RF IN Range (GHz)	RF Out Range (GHz)	Translation Range (GHz)	Step Size (MHz)	Price
3115-51 Indoor	UP	1	L-Ku	0.95-1.45	10.7-11.2	FIXED	N/A	\$11,995
		2	L-Ku	0.95-1.45	11.2-11.7	FIXED	N/A	
		3	L-Ku	0.95-1.45	11.7-12.2	FIXED	N/A	
		4	L-Ku	0.95-1.45	12.2-12.7	FIXED	N/A	
		5	L-Ku	0.95-1.45	12.25-12.75	FIXED	N/A	
3116-T291 Indoor	Translator	1	Ka-Ka	27.6-29.1 (#1)	17.8-19.3 (x3)	FIXED	N/A	\$18,495
			Ka-Ka	27.6-29.1 (#2)	17.8-19.3 (x3)	FIXED	N/A	
			Ka-Ka	27.6-29.1 (#3)	17.8-19.3 (x3)	FIXED	N/A	
4116-T24 Weatherized	Translator Tunable	1	UHF-UHF	0.2-0.4	0.2-0.4	1.95-2.15	0.1	\$8,995
4115-31 Weatherized	UP	1	L-C	0.95-2.05	5.85-6.95	FIXED	N/A	\$21,995
		2	L-Ku	0.95-2.05	13.75-14.85	FIXED	N/A	
		3	L-DBS	0.95-2.05	17.3-18.4	FIXED	N/A	
4116-31 Weatherized	DOWN	1	C-L	3.4-4.2	0.95-1.75	FIXED	N/A	\$18,995
		2	Ku-L	10.7-11.8	0.95-2.05	FIXED	N/A	
		3	Ku-L	11.7-12.8	0.95-2.05	FIXED	N/A	
4116-T51 Weatherized	Translator	1	C-C	5.85-6.95	3.4-4.5	2.05-3.05	5	\$20,995
		2	Ku-Ku	13.75-14.85	10.7-11.8	2.05-3.05	5	
		3	Ku-Ku	13.75-14.85	11.7-12.8	2.05-3.05	5	
		4	DBS-Ku	17.3-18.4	10.7-11.8	5.1-5.6	5	
		5	DBS-Ku	17.3-18.4	11.7-12.8	6.6	FIXED	
4116-T61 Weatherized	Translator	1	C-C	5.85-6.95	3.4-4.5	2.05-3.05	1	\$23,995
		2	Ku-Ku	13.75-14.85	10.7-11.8	2.05-3.05	1	
		3	Ku-Ku	13.75-14.85	11.7-12.8	2.05-3.05	1	
		4	Ku-Ku	13.75-14.85	11.7-12.8	1.24-1.80	1	
		5	DBS-Ku	17.3-18.4	10.7-11.8	6.6	FIXED	
		6	DBS-Ku	17.3-18.4	11.7-12.8	5.1-5.6	5	
4115-267 Weatherized	UP	1	L-Ka	0.52-0.92	26.5-26.69	FIXED	N/A	\$14,995
4115-300 Weatherized	UP	1	L-Ka	0.95-1.95	27.5-28.5	FIXED	N/A	\$23,495
		2	L-Ka	0.95-1.95	28.0-29.0	FIXED	N/A	
		3	L-Ka	0.95-1.95	29.0-30.0	FIXED	N/A	
		4	L-Ka	0.95-1.95	30.0-31.0	FIXED	N/A	
4116-200 Weatherized	DOWN	1	Ka-L	17.7-18.7	0.95-1.95	FIXED	N/A	\$18,995
		2	Ka-L	18.3-19.3	0.95-1.95	FIXED	N/A	
		3	Ka-L	19.2-20.2	0.95-1.95	FIXED	N/A	
		4	Ka-L	20.2-21.2	0.95-1.95	FIXED	N/A	
4116-T300 Weatherized	Translator	1	Ka-Ka	27.5-28.5	17.7-18.7	8.3-10.3	5	\$26,995
		2	Ka-Ka	28.0-29.0	18.3-19.3	8.3-10.3	5	
		3	Ka-Ka	29.0-30.0	19.2-20.2	8.3-10.3	5	
		4	Ka-Ka	30.0-31.0	20.2-21.2	8.3-10.3	5	

Precision Frequency Sources



Precision Frequency Sources

MODEL	Description	Price
2099-10	Frequency Source, Dual 10 MHz Reference	\$1,695
2099-10xx	Frequency Source, Multi-Port 10 MHz Reference, 4 to 12 Port Distribution	From \$2,795
2099-2424	Source / Inserter	\$2,795
2099-1748	Source / Inserter	\$2,795
2099-25xx	Frequency Source, Multi-Port 25 MHz Reference, 4 to 12 Port Distribution	From \$3,195
2099-100xx	Frequency Source, Multi-Port 100 MHz Reference, 4 to 12 Port Distribution	From \$3,295
2099-2448	Source/Inserter, 24/48 VDC, ± 0.01 ppm Internal Reference	\$5,395

Switches



RF Protection Switches

MODEL	Switch 1	Frequency	Switch 2	Frequency	DC Power	Price
1:1 —						
1582-22L	2.15	GHz	2.15	GHz	24V/2.4A or 48V / 1.8A	\$2,395
1582-25L	2.5	GHz	2.5	GHz	30V / 0.5A	\$2,195
1582-25L2	2.5	GHz (x2)	2.5	GHz (x 2)	30V / 0.5A	\$2,645
1582-70L	1.5	GHz	1.5	GHz	N/A	\$1,995
1582-152	2.5	GHz	15	GHz	N/A	\$2,695
1582-652	1.5	GHz	6.5	GHz	N/A	\$2,895
1:2 —					Converter Type	
1582-10xx	10.0	MHz	10.0	MHz	Switch / Distribution	\$1,995
2582-122	2.2	GHz	2.2	GHz	Agile	\$3,995
2582-123	2.2	GHz	15.0	GHz	Block	\$4,395
2582-126	15.0	GHz	15.0	GHz	Block	\$5,295
1:4 —					Converter Type	
2582-344	2.2	GHz	15.0	GHz	Agile	\$8,095
1:8 —					Converter Type	
2582-282	2.2	GHz	2.2	GHz	Agile	\$7,095

Wave Guide Redundant Controller

MODEL	1:1	1:2	Common	Switch Drive Voltage (Amps)	Remote M&C	Price
2082-141	X	–	+26 Vdc	+26 Vdc (2.5A)	Standard:	\$2,695
2082-141P	X	–	Ground	+26 Vdc (2.5A)	RS232/485/422	\$2,695
2082-142	–	X	+26 Vdc	+26 Vdc (5.0A)		\$2,995
2082-142P	–	X	Ground	+26 Vdc (5.0A)	Optional:	\$2,995
2082-141-47	X	–	+47 Vdc	+47 Vdc (1.5A)	Ethernet with	\$3,495
2082-141-47P	X	–	Ground	+47 Vdc (1.5A)	Web Browser or	\$3,495
2082-142-47	–	X	+47 Vdc	+47 Vdc (3.0A)	SNMP, or	\$3,795
2082-142-47P	–	X	Ground	+47 Vdc (3.0A)	TCP/IP Direct	\$3,795

Custom/Special Products

Up/Down Converters with Loopback Translators

MODEL	Type	Frequency (MHz)		Gain (Fixed)	Remote M&C	Price
		Input	Output			
2017-7216	UP	70± 10 MHz	7.2166 GHz	+10 dB	Standard: RS232/485/422 Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$10,695
	Down	1.6866 GHz	70 ± 10 MHz	+10 dB		
	Translate	7.2166 GHz	1.6866 GHz	---		
2017-2004	UP	70± 10 MHz	2032.775 or 2032.825 MHz	+10 dB	Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$9,395
	Down Translate	468.775 or 468.825 MHz 2032.775 or 2032.825 MHz	70 ± 10 MHz 468.775 or 468.825 MHz	+10 dB ---		

Other Custom/NEW Products

2016-02-370	L-Band/UHF Downconverter, 950 - 2150 MHz to 370 ±100 MHz, 125 KHz Steps, 0 to 30 dB Gain, Non-inverting					\$4,395
1582-1001LB	1:1 Protection Switch, L-band +10 MHz with switching based on presence of 10 MHz Signal					\$2,295
2009-138	Ku-band TEST BLOCK Downconverter 13.75 - 14.50 GHz to 959 - 1700 MHz, 25 ±3 dB Gain (fixed)					\$2,595

Ka Band Up/Downconverters

Ka-Band UpConverters & DownConverters

MODEL	Band	Type	Frequency		Step Size	Freq. Sense	Gain		Price
			Input	Output			Gain Max.	Range/Steps	
3015-2124	Ka-Band	Up	70±18 MHz	21.0 -24.0 GHz	Standard: 125 KHz	Inverting	+20 dB	-10 to +20 dB / 1.0 dB	\$18,995
3015-2427	Ka-Band	Up	70±18 MHz	24.0 -27.0 GHz					\$18,995
3015-2731	Ka-Band	Up	70±18 MHz	27.0 -31.0 GHz	Optional: 1 KHz:	Inverting or Non-Inverting	+30 dB	0 to +30 dB /1.0 dB	\$18,995
3016-1722	DBS/Ka-band	Down	17.0-22.0 GHz	70±18 MHz					\$18,995
3016-1821	DBS/Ka-band	Down	17.6-21.3 GHz	70±18 MHz					\$18,995
3016-2124	Ka-band	Down	21.0-24.0 GHz	70±18 MHz					\$18,995

Enhanced Communications Block Converters

Block Converters & Block Translators

MODEL	Band	Type	Freq. Range (GHz)		Freq. Sense	Gain		Remote M&C	Price
			IN	OUT		Gain Max	Range/Steps		
CONVERTERS									
3115-59	C-band	Up	0.95-1.75	5.85-6.65	Non-Inverting	+30 dB	30 db / 0.5 dB	Standard: RS232/485/422	\$5,995
3116-34	C-band	Down	3.40-4.20	0.95-1.75	Inverting	+35 dB	30 db / 1.0 dB		\$5,495
3115-73	X	Up	2.10-2.30	7.10-7.30	Non-Inverting	+30 dB	30 dB / 0.5 dB		\$5,995
3115-137	Ku-band	Up	0.95-1.70	13.75-14.50	Non-Inverting	+30 dB	30 dB / 0.5 dB	Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$6,095
3115-51	Multi, (5) Ku-bands	Up	0.95-1.45	From 10.70 to 12.75	Non-Inverting	0, ±2 dB	0 to -20 dB /1.0 dB		\$11,995
3115-21-145	Dual Ku-band	Up	0.95-1.45 0.95-1.70	12.75-13.25 13.75-14.50	Non-Inverting	+30 dB	30 dB / 0.5 /1.0 dB		\$11,995

TRANSLATORS

3116-T21-1412	Dual, Ku-band	Down	13.75-14.50	10.70-11.55 11.70-12.45	Non-Inverting	+20 dB	20 db / +40 dB /1.0 dB	Standard: RS232/485/422	\$11,995
3116-T291	Ka-band	Down	27.6-29.1	17.8-19.3	Non-Inverting	-29 dB	Fixed		\$18,495
3116-T31-148	Tri-band C-, X- & Ku-band	Down	5.925-6.425 7.90-8.40 13.75-14.85	3.70-4.20 7.250-7.75 11.70-12.80	Non-Inverting	+20 dB	+20 to -40 dB /1.0 dB	Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$22,995
3116-T71	(7) bands C-, X, Ku- & DBS bands	Down	5.85 - 6.95 to 3.40 - 4.50 7.90 - 8.40 to 7.25 - 7.75 13.75 - 14.85 to (3) Ku-bands 17.3 - 18.4 to (2) Ku-bands		Non-Inverting	+20	+20 to -40 dB +20 to -40 dB		\$23,495
3116-145T114	Ku-band	Down	13.75-14.50	10.70-11.45	Non-Inverting	+20 dB	+20 to -40 dB		\$6,195
3116-145T124	Ku-band	Down	13.75-14.50	11.70-12.45	Non-Inverting	+20 dB	/1.0 dB		\$6,195

Custom/Special Products

Up/Down Converters with Loopback Translators

MODEL	Type	Frequency (MHz)		Gain (Fixed)	Remote M&C	Price
		Input	Output			
2017-7216	UP	70± 10 MHz	7.2166 GHz	+10 dB	Standard: RS232/485/422	\$10,695
	Down	1.6866 GHz	70 ± 10 MHz	+10 dB		
	Translate	7.2166 GHz	1.6866 GHz	---		
2017-2004	UP	70± 10 MHz	2032.775 or 2032.825 MHz	+10 dB	Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$9,395
	Down	468.775 or 468.825 MHz	70 ± 10 MHz	+10 dB		
	Translate	2032.775 or 2032.825 MHz	468.775 or 468.825 MHz	---		

Other Custom/NEW Products

2016-02-370	L-Band/UHF Downconverter, 950 - 2150 MHz to 370 ±100 MHz, 125 KHz Steps, 0 to 30 dB Gain, Non-inverting					\$4,395
1582-1001LB	1:1 Protection Switch, L-band +10 MHz with switching based on presence of 10 MHz Signal					\$2,295
2009-138	Ku-band TEST BLOCK Downconverter 13.75 - 14.50 GHz to 959 - 1700 MHz, 25 ±3 dB Gain (fixed)					\$2,595

Ka Band Up/Downconverters

Ka-Band UpConverters & DownConverters

MODEL	Band	Type	Frequency		Step Size	Freq. Sense	Gain		Price
			Input	Output			Gain Max.	Range/Steps	
3015-2124	Ka-Band	Up	70±18 MHz	21.0 -24.0 GHz	Standard:	Inverting	+20 dB	-10 to +20 dB / 1.0 dB	\$18,995
3015-2427	Ka-Band	Up	70±18 MHz	24.0 -27.0 GHz	125 KHz				
3015-2731	Ka-Band	Up	70±18 MHz	27.0 -31.0 GHz					
3016-1722	DBS/Ka-band	Down	17.0-22.0 GHz	70±18 MHz	Optional: 1 KHz:	Inverting or Non-Inverting	+30 dB	0 to +30 dB /1.0 dB	\$18,995
3016-1821	DBS/Ka-band	Down	17.6-21.3 GHz	70±18 MHz					
3016-2124	Ka-band	Down	21.0-24.0 GHz	70±18 MHz					

Enhanced Communications Block Converters

Block Converters & Block Translators

MODEL	Band	Type	Freq. Range (GHz)		Freq. Sense	Gain		Remote M&C	Price
			IN	OUT		Gain Max	Range/Steps		
CONVERTERS									
3115-59	C-band	Up	0.95-1.75	5.85-6.65	Non-Inverting	+30 dB	30 db / 0.5 dB	Standard: RS232/485/422	\$5,995
3116-34	C-band	Down	3.40-4.20	0.95-1.75	Inverting	+35 dB	30 db / 1.0 dB		
3115-73	X	Up	2.10-2.30	7.10-7.30	Non-Inverting	+30 dB	30 dB / 0.5 dB		
3115-137	Ku-band	Up	0.95-1.70	13.75-14.50	Non-Inverting	+30 dB	30 dB / 0.5 dB	Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$6,095
3115-51	Multi, (5) Ku-bands	Up	0.95-1.45	From 10.70 to 12.75	Non-Inverting	0, ±2 dB	0 to -20 dB /1.0 dB		
3115-21-145	Dual Ku-band	Up	0.95-1.45 0.95-1.70	12.75-13.25 13.75-14.50	Non-Inverting	+30 dB	30 dB / 0.5 /1.0 dB		\$11,995

TRANSLATORS

3116-T21-1412	Dual, Ku-band	Down	13.75-14.50	10.70-11.55 11.70-12.45	Non-Inverting	+20 dB	20 db / +40 dB /1.0 dB	Standard: RS232/485/422	\$11,995
3116-T291	Ka-band	Down	27.6-29.1	17.8-19.3	Non-Inverting	-29 dB	Fixed		
3116-T31-148	Tri-band C-, X- & Ku-band	Down	5.925-6.425 7.90-8.40 13.75-14.85	3.70-4.20 7.250-7.75 11.70-12.80	Non-Inverting	+20 dB	+20 to -40 dB /1.0 dB		
3116-T71	(7) bands C-, X, Ku- & DBS bands	Down	5.85 - 6.95 to 3.40 - 4.50 7.90 - 8.40 to 7.25 - 7.75 13.75 - 14.85 to (3) Ku-bands 17.3 - 18.4 to (2) Ku-bands		Non-Inverting	+20	+20 to -40 dB +20 to -40 dB	Optional: Ethernet with Web Browser or SNMP, or TCP/IP Direct	\$23,495
3116-145T114	Ku-band	Down	13.75-14.50	10.70-11.45	Non-Inverting	+20 dB	+20 to -40 dB		\$6,195
3116-145T124	Ku-band	Down	13.75-14.50	11.70-12.45	Non-Inverting	+20 dB	/1.0 dB		\$6,195

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CROSS TECHNOLOGIES, INC.

6170 Shiloh Road
Alpharetta, Georgia 30005
770.886.8005 (phone)
770.886.7964 (fax)
888.900.5588 (toll free)

www.crosstechnologies.com



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