21/12/20 8:07:47 PM

IFP Parameter List

R.H.F.

Param	Name	Value Range	Default	Group	Type	Comment	Notes	GSort
< 1 >	Image Filter	{Out, In}	Out	Inputs	Primary			1
< 2 >	I/P Data Format	{8bit, 4bit}	8bit	Inputs	Primary			2
< 3 >	I/P Window	{Outer, Inner}	Inner	Outputs	Secondary	Set by <7>		25
< 4 >	I/P Spectrum	{Natural, Flipped}	Natural	Inputs	Primary			3
< 5 >	Pos Hilb Filter	[1..64]	31	Outputs	Secondary	Set by <7>		26
< 6 >	Neg Hilb Filter	[1..64]	31	Outputs	Secondary	Identical to <5>		27
< 7 >	BS Q Filter*	[1..64]*	7	Outputs	Primary		* 1,2	2
< 8 >	BS I Filter	[1..64]	7	Outputs	Secondary	Set by <7>		28
< 9 >	BS Adders Ctrl	{Auto, Manual}	Auto	Defaults	TestOnly			11
< 10 >	BS Adders Mode	{Bypass, Add}	Bypass	Defaults	Dependent	Enabled by <9>=M		12
< 11 >	BU O/P Spectrum*	{Natural, Flipped}	Natural	Outputs	Primary		* 3	3
< 12 >	BL O/P Spectrum*	{Natural, Flipped}*	Natural	Outputs	Primary		* 4	4
< 13 >	LO Sync Source	{SYNC, 1PPS_AUX}	SYNC	Defaults	Primary			19
< 14 >	FT I/P Enable	{BUL_Data, Clamp1}	BUL_Data	Defaults	TestOnly		* 5	17
< 15 >	FT I/P Data Ctrl	{Auto, Manual}	Auto	Outputs	Secondary	Set by <7>		29
< 16 >	FT I/P BandSel	{BU, BL}	BU	Monitors	Dependent	Enabled by <15>=M		2
< 17 >	BS Monitor Ctrl	{Auto, Manual}	Auto	Outputs	Secondary	Set by <7>		33
< 18 >	BS Mon BandSel	{BU, BL}	BU	Monitors	Dependent	Enabled by <17>=M		1
< 19 >	BU Mux Control	{Auto, Manual}	Auto	Defaults	TestOnly			13
< 20 >	BU Data Select	{BU, BL}	BU	Defaults	Dependent	Enabled by <19>=M		14
< 21 >	BL Mux Control	{Auto, Manual}	Auto	Defaults	TestOnly			15
< 22 >	BL Data Select	{BU, BL}	BU	Defaults	Dependent	Enabled by <21>=M		16
< 23 >	BUL Thresh Ctrl	{Auto, Manual}	Auto	Defaults	Primary			5
< 24 >	BU Man Thresh	[0..255]	140	Defaults	Dependent	Enabled by <23>=M		6
< 25 >	BL Man Thresh	[0..255]	140	Defaults	Dependent	Enabled by <23>=M		7

Param	Name	Value Range	Default	Group	Type	Comment	Notes	GSort
< 26 >	I/P AGC Control	{Auto, Manual}	Auto	Defaults	Primary			1
< 27 >	Manual Gain	[0..1023]	512	Defaults	Dependent	Enabled by <26>=M		2
< 28 >	I/P Offset Control	{Auto, Manual}	Auto	Defaults	Primary			3
< 29 >	Manual Offset	[0..1023]	512	Defaults	Dependent	Enabled by <28>=M		4
< 30 >	64M O/P Spectrum	{Natural,Flipped}	Natural	Inputs	Primary			4
< 31 >	Magnitude Stats	{4-level, 3-level}	4-level	Outputs	Primary			10
< 40 >	Clock Decimation	[1,2,4,8,16]	1	Outputs	Virtual	Set by <7>		30
< 41 >	LO Frequency	[0..BUL]	8.0E6	Outputs	Primary			6
< 42 >	LO Frequ Offset	[0..BUL]	0.0	Defaults	Primary			21
< 43 >	LO Phase Offset	[0..360]	0.0	Defaults	Primary			22
< 44 >	LO Timer Interval	[0..1]	0.0	Outputs	Secondary	Set by <40> & <41>		31
< 45 >	LO Phase Sync	{Off, On}	On	Defaults	Primary			18
< 46 >	Add Frequ Offset	{Off, On}	Off	Defaults	Primary			20
< 47 >	LO Phase Correct	{Off, On}*	On	Outputs	Primary	On requires <45>=On	* 16	21
< 48 >	LO Test Mode	{CW, Phase}	CW	Defaults	TestOnly			23
< 49 >	FT Q Filter*	[1..64]*	9	Outputs	Primary		* 5,6,7	7
< 50 >	FT I Filter	[1..64]	9	Outputs	Secondary	Set by <49>		32
< 51 >	FT Adders Ctrl	{Auto, Manual}	Auto	Defaults	TestOnly			24
< 52 >	FT Adders Mode	{Bypass, Add}	Bypass	Defaults	Dependent	Enabled by <51>=M		25
< 53 >	FU O/P Spectrum*	{Natural, Flipped}	Natural	Outputs	Primary		* 7,8	8
< 54 >	FL O/P Spectrum*	{Natural, Flipped}	Natural	Outputs	Primary		* 7,9	9
< 55 >	DIG Port Ctrl	{Auto, Manual}	Auto	Outputs	Secondary	Set by <49>		35
< 56 >	DIG Port BandSel	{FU, FL}	FU	Monitors	Dependent	Enabled by <55>=M		4
< 57 >	FT Monitor Ctrl	{Auto, Manual}	Auto	Outputs	Secondary	Set by <49>		34
< 58 >	FT Mon BandSel	{FU, FL}	FU	Monitors	Dependent	Enabled by <57>=M		3

Param	Name	Value Range	Default	Group	Type	Comment	Notes	GSort
< 59 >	FU Mux Control	{Auto, Manual}	Auto	Defaults	TestOnly			26
< 60 >	FU Data Select	{FU, FL}	FU	Defaults	Dependent	Enabled by <59>=M		27
< 61 >	FL Mux Control	{Auto, Manual}	Auto	Defaults	TestOnly			28
< 62 >	FL Data Select	{FU, FL}	FU	Defaults	Dependent	Enabled by <61>=M		29
< 63 >	FUL Thresh Ctrl	{Auto, Manual}	Auto	Defaults	Primary			8
< 64 >	FU Man Thresh	[0..255]	140	Defaults	Dependent	Enabled by <63>=M		9
< 65 >	FL Man Thresh	[0..255]	140	Defaults	Dependent	Enabled by <63>=M		10
< 68 >	DIG Port Enable	{Tristate, Enabled}	Enabled	Defaults	Primary			30
< 70 >	S2 Data Source	{BxFx, 32M, 64M, 64Mm}*	BxFx	Outputs	Primary		* 10	11
< 71 >	S2 Lo Chans Data	{BU, BL, FU, FL}*	BU	Outputs	Dependent	Enabled by <70>=BxFx	* 3,8,11,12	12
< 72 >	S2 Hi Chans Data	{BU, BL, FU, FL}	FU	Outputs	Dependent	Enabled by <70>=BxFx	* 3,8,11,12	13
< 73 >	S2 Lo Chans Fmat	{AT, VLBA}	AT	Outputs	Dependent	En by <70>=BxFx, 32M		14
< 74 >	S2 Hi Chans Fmat	{AT, VLBA}*	AT	Outputs	Dependent	En by <70>=BxFx, 32M	* 13	15
< 75 >	CORR OUT Fmat	{AT, Multibeam}*	AT	Monitors	Primary		* 14	15
< 76 >	Corr Data Source	{BU,BL,FU,FL, 32M, 64M}	BU	Monitors	Dependent	Enabled by <70>=BxFx	*	16
< 77 >	AT Corr Clk Delay	[0..3]	0	Defaults	Primary			31
< 79 >	MB Corr Source 2	{BU, BL, FU, FL}	BL	Monitors	Primary			17
< 101 >	Com Port	[1..4]	1	Serial	Primary			1
< 102 >	Data Set Address	[0..31]	0	Serial	Primary			2
< 103 >	IFP 1 Address	[0,1]	0	Serial	TestOnly			4
< 104 >	IFP 2 Address	[0,1]	1	Serial	TestOnly			5
< 105 >	Baud Rate	[4800,38400]	38400	Serial	Primary			3
< 106 >	Parity	{Odd}	Odd	Serial	Fixed			6
< 107 >	Data Bits	[8]	8	Serial	Fixed			7
< 108 >	Stop Bits	[1]	1	Serial	Fixed			8