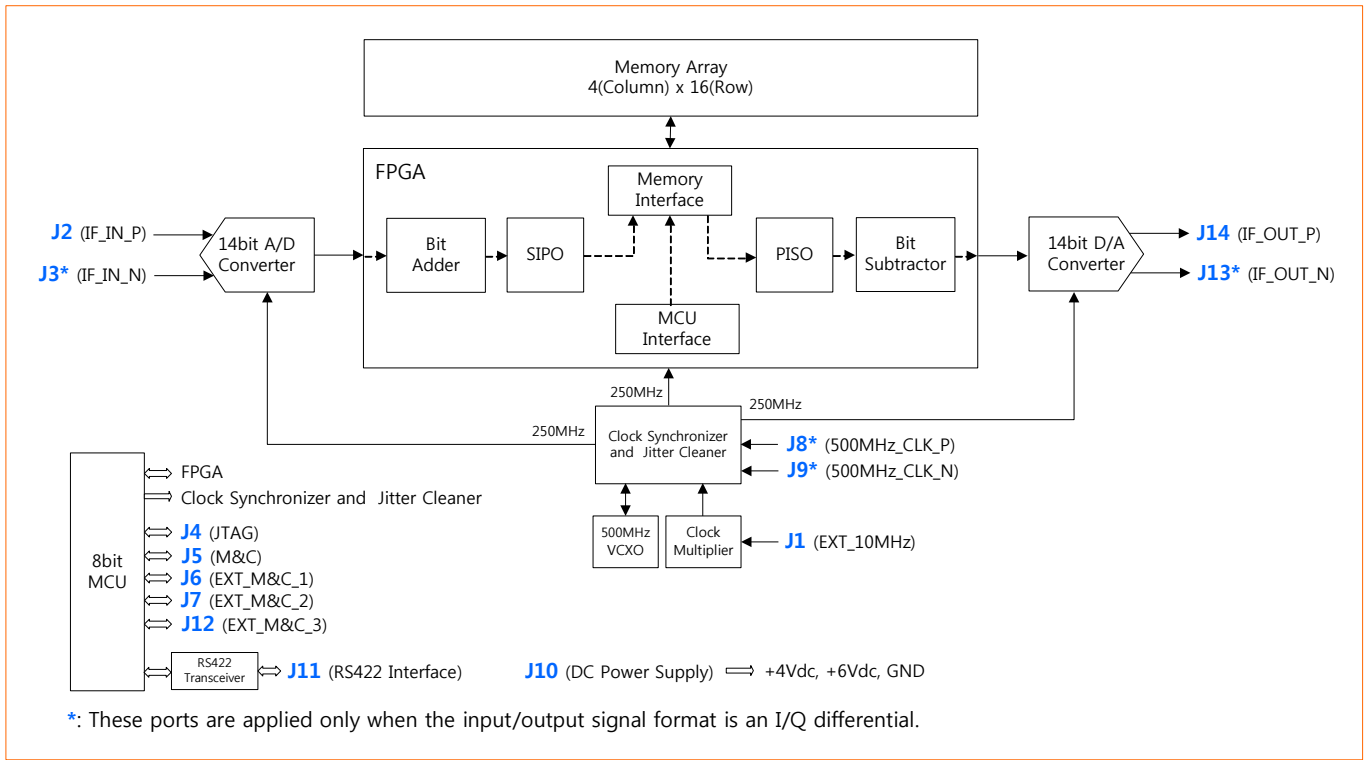
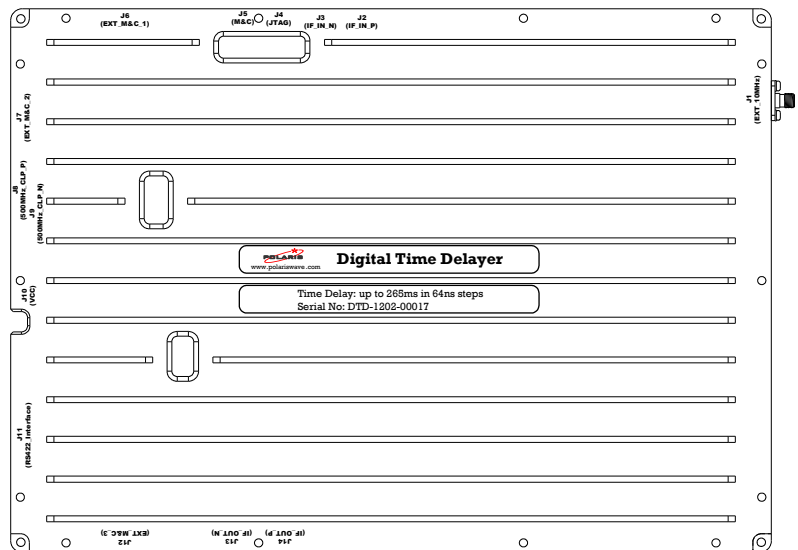


Digital Time Delayer



Features

- ❖ Ultra-wide bandwidth
 - up to 100MHz
- ❖ Operating frequency range
 - 13MHz to 113MHz
- ❖ Time delay range
 - up to 265ms
- ❖ Time delay resolution
 - 64ns
- ❖ Spurious @in-band
 - $\leq -45\text{dBc}$ ($\leq -50\text{dBc}$ typical)



Applications

- ❖ Radar simulator
- ❖ VSAT
- ❖ Earth terminal testing equipment
- ❖ Satellite link emulator

Specifications

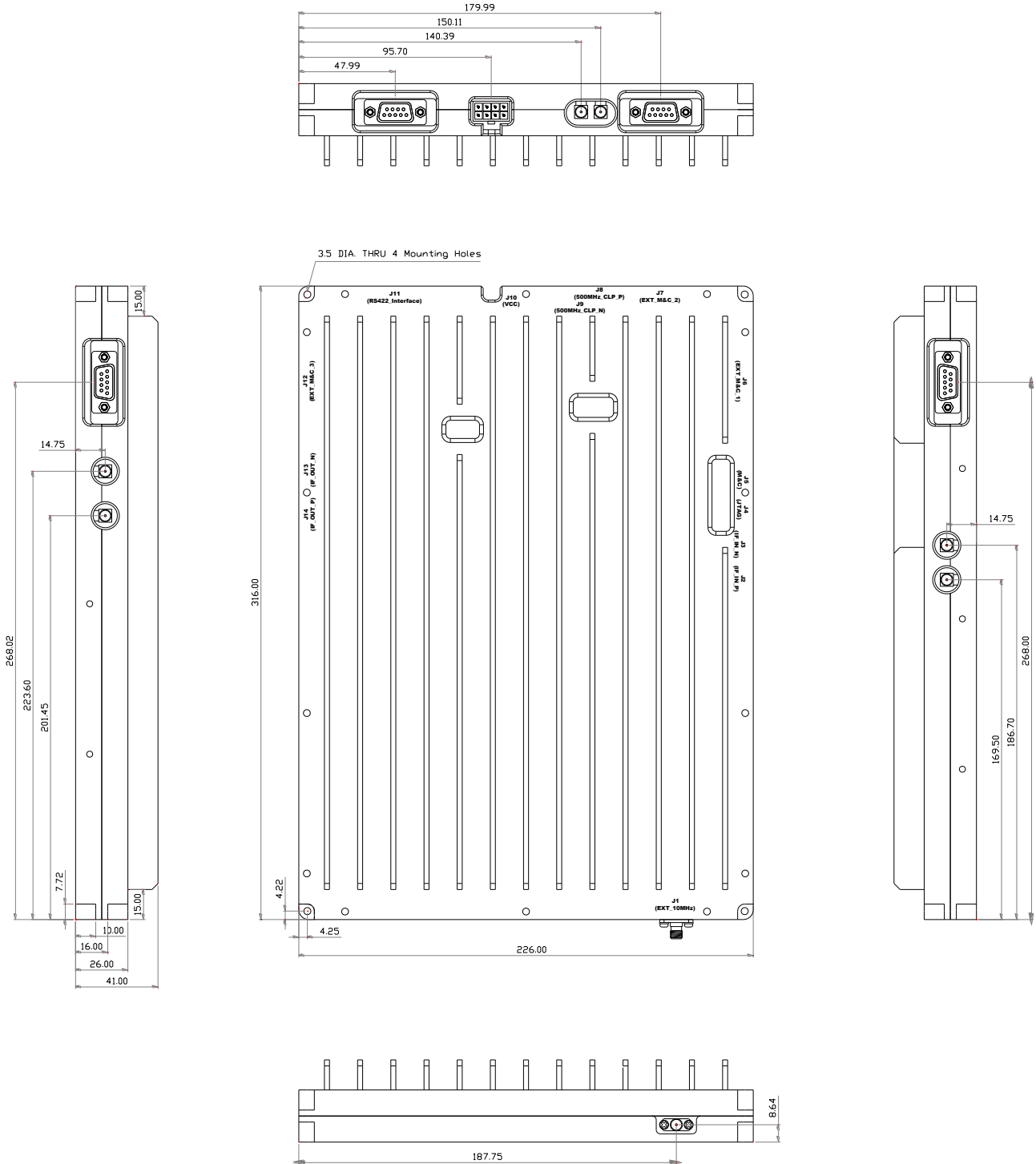
Parameters		Specifications		Remarks
Reference Signal	Frequency	10MHz		
	Input power	+3dBm		
Input frequency range		13MHz to 113MHz		Center frequency: 63MHz
Output frequency range		13MHz to 113MHz		
Operating bandwidth		100MHz		
Gain		-4.0dB @center frequency		
Bit resolution		14bit		
In-band spurious		≤ -45dBc		≤ -50dBc typical
Time delay	Range	up to 265ms		
	Resolution	64ns		
Supply voltage		+6Vdc, +4Vdc		
Current consumption	+6Vdc	+1.0A max.		
	+4Vdc	+4.0A max.		
Connectors	EXT_10MHz	J1	SMA (F), ST, 50Ω	Input, External 10MHz reference signal
	IF_IN_P	J2	SMA (F), R/A, 50Ω, PCB Mount	Input, IF, Positive
	IF_IN_N*	J3	SMA (F), R/A, 50Ω, PCB Mount	Option
	JTAG	J4	Male Header, 2x5-pin (10-pin), 2.54 mm	Program Download

Parameters		Specifications		Remarks	
Connectors	M&C	J5	Rectangular, ST, Header, 2x6-pin, 2.54 mm P1: +3.3Vdc P2: +5Vdc P3: KEY_ADC1 P4: KEY_ADC2 P5: KEY_ADC3 P6: KEY_ADC4 P7: LCD_OUT P8: Reserved P9: Reserved P10: Reserved P11: GND P12: GND	Monitoring & Control via Key-Pad/VFD	
	EXT_M&C_1	J6	D_SUB_9pin (Mail)	Reserved Port	
	EXT_M&C_2	J7	D_SUB_9pin (Mail)	Reserved Port	
	500MHz_CLK_P*	J8	SMA (F), R/A, 50Ω, PCB Mount	Option	
	500MHz_CLK_N*	J9	SMA (F), R/A, 50Ω, PCB Mount	Option	
	DC Power supply	J10	Rectangular, R/A, Header, 2x4-pin, 4.2 mm P1: +6Vdc P2: GND P3: +4Vdc P4: GND P5: +6Vdc P6: GND P7: +4Vdc P8: GND	+4Vdc, +6Vdc, GND	
	RS422 Interface	J11	D_SUB_9pin (Mail) P1: TXP P2: TXN P3: RXP P4: RXN P5: GND P6: N/C P7: N/C P8: N/C P9: N/C	Remote Control	
	EXT_M&C_3	J12	D_SUB_9pin (Mail)	Reserved Port	
	IF_OUT_N*	J13	SMA (F), R/A, 50Ω, PCB Mount	Option	
	IF_OUT_P	J14	SMA (F), R/A, 50Ω, PCB Mount	Output, IF, Positive	
	Dimension (mm)		316(L) x 226(W) x 41(H)		

*: These ports are applied only when the input/output signal format is an I/Q differential.

Outline Drawing

All dimensions are in millimeters.



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