

Rev. 12-22-5E

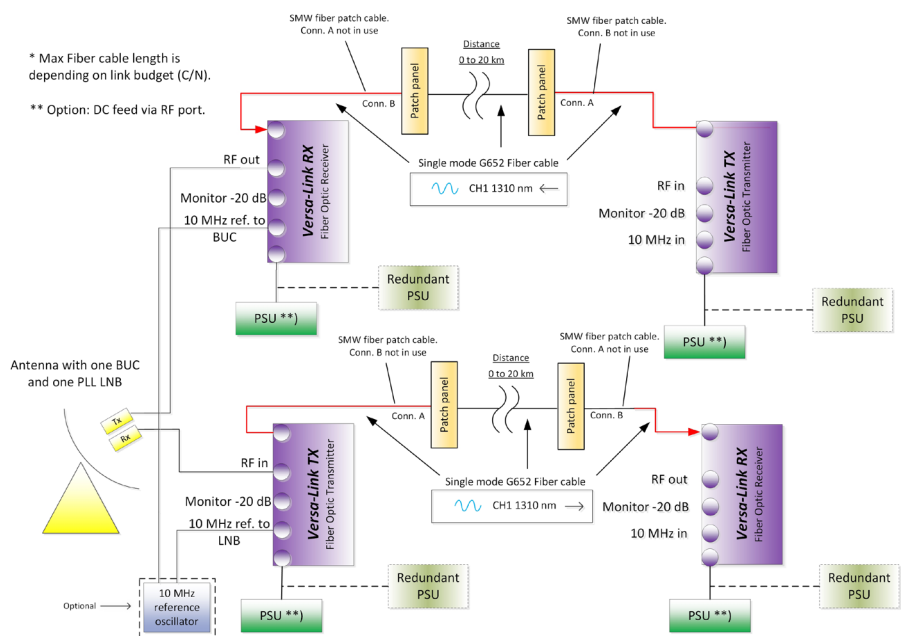
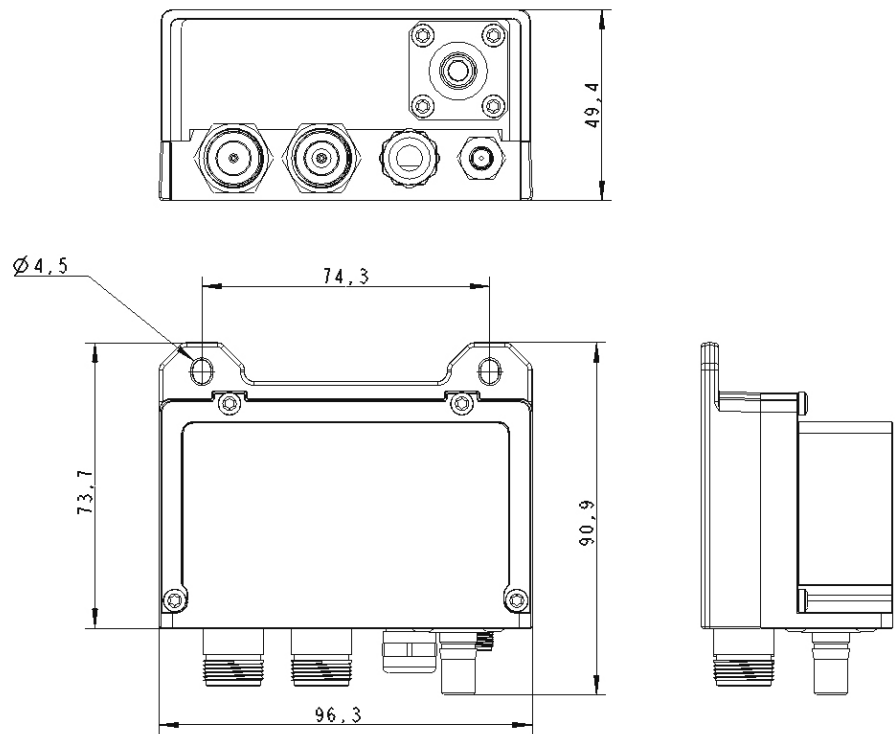
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Technical specifications

	Fiber transmitter	Fiber receiver
GENERAL	RF Frequency	290 - 2500 MHz (290 - 2350 MHz with F connectors), Optional 10 - 2500 MHz w/o 10 MHz ref. & Monitor output
	Bias Tee for LNB/BUC DC supply	4 A max with N-conn., 28 V DC max. out via RF out for BUC (DC block optional), RF in connector for LNB
	DC feed	Standard 3 x 0,75 mm2, 15 meter cable (pigtail) or via RF connector
	Power consumption	1 W max. (exclusive LNB/BUC power)
	Dimensions	96 (L) x 91 (W) x 49 (H) mm, for drawing, see www.smw.se
	Weight	465 g (SMA- & F-connector), 480 g (N-connector)
	Temperature Range	Storage and Operating -40 to +80°C, -40 to +176°F
	Ingress protection code	IP 67, Q-ODC connector only IP67 when mated with dust cover or Q-ODC cable connector
	System gain variation	± 0.20 dB within 30 MHz, ± 1 dB @ 950 - 2150 MHz, ± 2.5 dB @ 290 - 2500 MHz max. , ± 3 dB @ 10 - 2500 MHz max.
	Standards compliance	Optical interface: EIA/TIA 568, ITU std. G694.2; EMC: EN 55013:2013, EN 55020, EN 300 386; Safety: EN 60950-1, EN 60950-22, EN 60065:2002
INPUT	Miscellaneous	Installed pigtail DC cable 15 meter. Custom length available as option.
	Input level RF / Optical	-10 to -50 dBm @ 20 transponders -6 dBm to +5 dBm
	Input RF connector	F, N or SMA female
	Input connector optical	Dual fiber, Single mode Huber & Suhner, Q-ODC
	IP 3 RF input	+25 dBm typ.
	DC input	+12 to +28 Volt
INTERNAL	10 MHz input	Sinewave, -10 to + 5 dBm input via separate 10 MHz connector (SMA only).
	Optical interface	Direct modulated DFB laser, 1310nm (1550nm as option)
	RF gain Tx	User adjustable, -10 dB to +10 dB, factory set 0dB @ 100 meter fiber cable
	System noise figure	20 dB typ. @ full gain
	10 MHz Phase Noise	-123 dBc@100 Hz, -140 dBc@1kHz, -150 dBc@10kHz, -155 dBc@100 kHz
	System C/N Single carrier	> 56 dB @ 30 MHz
	System C/N 40 transponders	> 33 dB @ input level -15 dBm (composite level)
	SFDR	115 dB/Hz
	RF Return loss / VSWR	N / SMA connector: min. 12 dB / 1.7:1, F connector: min. 8 dB / 2.3:1
OUTPUT	10 MHz	Diplexer built in, Insertion via SMA connector 50Ω, n/a @ 10 - 2500 MHz RF range
	IP3 RF input / RF output	+33 dBm @ min. gain, +13 dBm @ max. gain +30 dBm typ.
	Optical output power	2 mW
	Output RF connector	F, N or SMA female
	Output connector optical	Dual fiber, Single mode Huber & Suhner, Q-ODC
OTHER	Cables	Outdoor to Outdoor fiber cables (Q-ODC to Q-ODC), Outdoor to indoor patch cables
	Power supply (AC/DC)	TDK Lambda +15VDC and +24 VDC
	Options	Increased fiber distance (1550 nm laser), Custom freq. range, Custom DC cable length

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Technical Drawing



Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS compliant and every unit includes full documentation of performance tests and quality control. Please contact sales@smw.se to configure or customize the unit to your needs. Visit smw.se or scan QR code to see our full product range and request a quote.

