







CRITICAL COMMUNICATION NETWORKS

Reliable Performance – From The Tower To The Core

PRODUCT CAPABILITIES

	PRODUCT	DESCRIPTION	FEATURES	OPTIONS
RF FILTERING	Tower Mounted Amplifiers	Single band and dual band TMA's for full AISG and CWA operation	Uplink gain improves system noise performance Integrated filters remove unwanted interference while amplifying the uplink path	Full range of single or dual band TMA's with or without bypass
	RF Combiners	Customized for combining or splitting frequency bands onto feeder systems Multi-band combiners save CAPEX by minimizing hardware components during installation	Combine specific frequency spectra without incurring high insertion loss Allows operators to integrate frequencies into a common antenna system	Configurations for in-band, dual band, triple band, quad band, and five-band
	RF Filters	Compact interference mitigation products provide rejection in the uplink frequency band Improves network performance in congested RF spectrum locations	RX blocking from unwanted RF interference Removes TX spurious from the down link when interfering with other systems	Dual duplex, band stop, and band pass filter configurations
TEST & MEASURE	PIM Analyzers	Full line of portable and bench PIM testing analyzers for cell site certification, as well as compliance and manufacturing testing	Spectrum monitor, frequency sweep and time trace modes Fully compliant with IEC PIM test recommendations Extensive reporting capabilities	Supports global wireless telecom bands E-Series (bench) iPA Series (portable) iTA (portable twin band)
	Cable & Antenna Analyzer	Rugged portable sweep testing analyzer for frequency range of operation between 600 MHz to 2750 MHz	Return loss, VSWR, cable loss, Distance-to-Fault, and spectrum monitoring	iVA battery operated Bluetooth enabled
SURGE PROTECTION	AC Protectors	Comprehensive AC product portfolio to address surge protection of critical applications	The right technology for the right application – silicon (SASD), MOV and hybrid	Multiple AC voltage configurations Various mounting options Status indication
	DC Protectors	Wide range of DC surge protection products for low-to-high voltage applications	Silicon (SASD) technology offers quick response and reliable voltage protection for sensitive equipment Large surge capacity MOV technology for high exposure applications	Flexible mounting options Indoor and outdoor Status indication
	Dataline Protectors	Surge protection devices optimized for high-speed gigabit to 4/20 mA analog signals	Ethernet, GbE, GbE PoE+ and GbE PoE++ applications	Indoor and outdoor Various mounting types and space saving enclosure sizes
	Coaxial RF Protectors	Extensive range of industry-leading, low-voltage let-through protectors for coaxial RF applications	Low throughput energy High surge handling capacity Low insertion loss	Ultra-low PIM protectors DC pass protectors DC block filters Protected Bias-T Grounding solutions
	Integrated Cabinets	Integrated Power Protection Cabinets (PPC) provide full functionality for quick site set up	AC, DC and dataline surge options for indoor and outdoor site applications	Power Protection Cabinets (PPC) ATS and MTS Set-up accessories
MICROWAVE	Backhaul Antennas	Diverse rugged antenna portfolio from 1.3 GHz to 86 GHz	1 ft. to 8 ft. diameter solutions Rapid on-site assembly 7-year warranty	Wide selection including parabolic, sectors, and flat panel antennas

RF Protection - TSX Series Ultra low PIM protectors for 698 MHz to 2.5 GHz, available in DC Block and DC Pass configuration

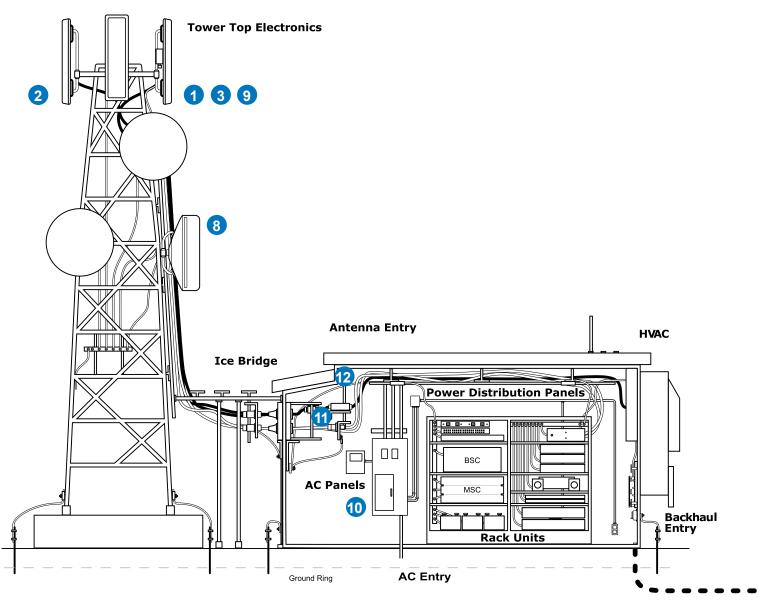




RF Protection - G

DC Pass filter protectors ideal for RF applications where DC is required

rPolyPhaser









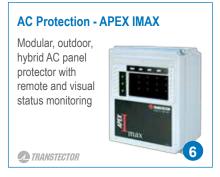
Multi-Band Comb

Dual band combiner ideal for 700/850/900 and AWS/PCS applications.
Available in single or twin unit configurations

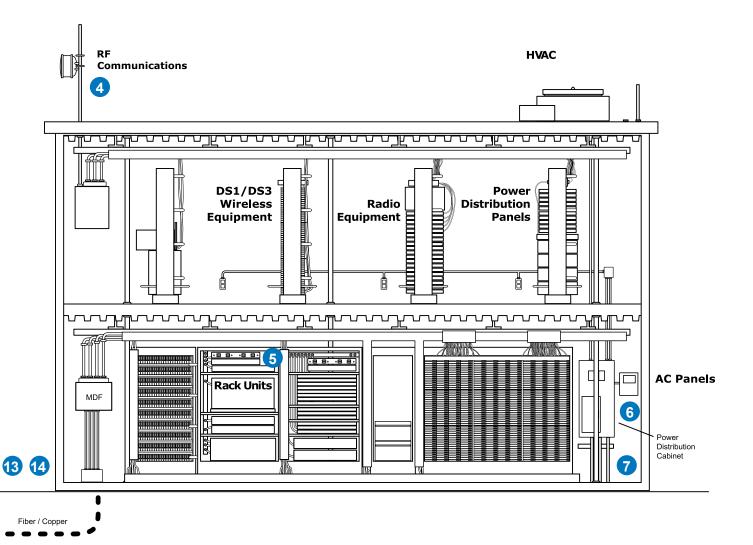
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