SAQR 7000

MISSION-CRITICAL | HIGH CAPACITY BACKHAUL

- Flexible modular wireless system transporting IP with native ASI and TDM data over 2 GHz - 38 GHz radios.

- High spectral efficiency delivering more than 900 Mbps per 2+0 system.

- Flexible configurations including all-indoor or split-mount architecture from 1+0 to 2+0 XPIC up to 8+0 delivering 4+ Gbps over a single path.

- Fully redundant system configurations for protecting every component.

- Very High Power radios for long distance back-haul.

- Ideal microwave system for critical network infrastructure with secure HTTPS/SSH access, FIPS 197 256-bit AES over the air encryption at 99.9999% availability.

For more information, visit www.lamatel.com or send an email to sales@lamatel.com.
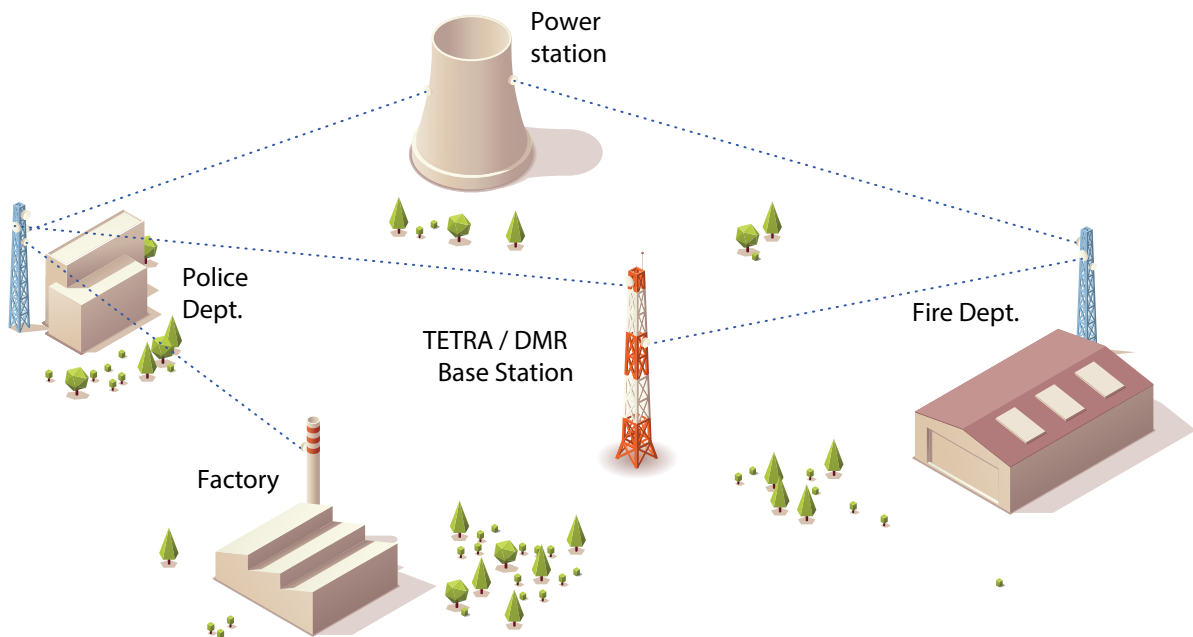
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Supporting channel bandwidths of up to 60 MHz, the SAQR 7000 enables transition from TDM only or ASI only networks to hybrid native ASI/T1/E1/IP networks, providing up to 16 ASI ports for video or up to 64E1/T1 lines for telephony, and Gigabit Ethernet ports for IP connectivity with total throughput of up to 900 Mbps in 2+0 configuration.

SAQR 7000
IDU modem

	ETSI	FCC
Frequency Bands	2GHz *, 4GHz, U4GHz, L6GHz, U6GHz, 7GHz, 8GHz, 11GHz, 13GHz, 18GHz, 23GHz, 38GHz	
Channel Bandwidths	from 7 MHz, up to 56 MHz	from 10 MHz, up to 60 MHz
Modulation	up to 1024 QAM	
Capacity	up to 900 Mbps in 2+0	
Configurations	1+0, 1+1 HSB/SD/FD, 1+0 Dual (Repeater), 2+0 (Layer 1 aggregation), 2+0 XPIC, 2+2 ** (with two IDUs)	
Synchronization	PTP 1588v2, SyncE	
Encryption	AES 256-bit	
Traffic/Management ports	3x 10/1000Base-T, RJ-45 – for traffic and/or management access, 4x SFP (1000BseSX/LX) – for traffic, also work as Extension/Protection ports/Aggregation ports, USB B – alternative serial IP management access, USB A - flash memory port, 2x N-Type Female – for connection to RF's	
Management	MIB, SNMP v1/v2c /v3, Web GUI (HTTP/HTTPS), CLI (Telnet/SSH), Serial interface (USB IP port) , in-band or out-band management	
Ethernet switch	Managed Gigabit Ethernet Layer 2	
QoS	64 level DiffServ (DSCP) or 8 level 802.1p mapped in 4 prioritization queues with VLAN support, IPv6 Traffic Class	
VLAN support	802.1Q, up to 4096 VLANs	
IDU Operational use	ETSI EN 300 019, Part 1-3, Class 3.2	
Max. power consumption	IDU only: <30W IDU+2xODU: <180W	

SAQR 7000 in your network

Power station

Police Dept.

TETRA / DMR Base Station

Fire Dept.

Factory