The ASLAN-T Module

Blending IP Differentiated Services and policing for a better network experience

- Guarantee service quality for voice, video and synchronous data
- Differentiate users and applications within a service class
- Interoperate with existing communication platforms over tactical links
- Replace IP routers for smaller units that pull services from upper echelons
- Re-mark IP/Ethernet header information, such as DSCP and VLAN fields before transmission
- Choose and implement pre-defined traffic policies from a graphical user interface

Tactical networks today have critical applications spread across a number of IP service classes. With congested radio circuits, IP routing devices cannot differentiate applications outside the priority service class without jeopardizing UDP-based voice and video services. How can operators assure that the "next generation" network will have the capability as the legacy network?

The ASLAN-T is a fully-integrated module that can be interfaced to existing tactical communication platforms to perform Assured Services LAN (ASLAN) switch functions. The ASLAN-T aggregates time-sensitive IP data and synchronous serial data with non-real time data over IP networks. In addition to priority queuing, the ASLAN-T can police and re-mark any classification of traffic to assure a committed transmission rate or to cap low-priority traffic

The ASLAN-T's VLAN switching technology can better converge intelligence networks by maintaining complete separation of packets between non-classified and classified networks. And the ASLAN-T's Ethernet and IP Serial links support both in-line and bulk Type 1 encryption.

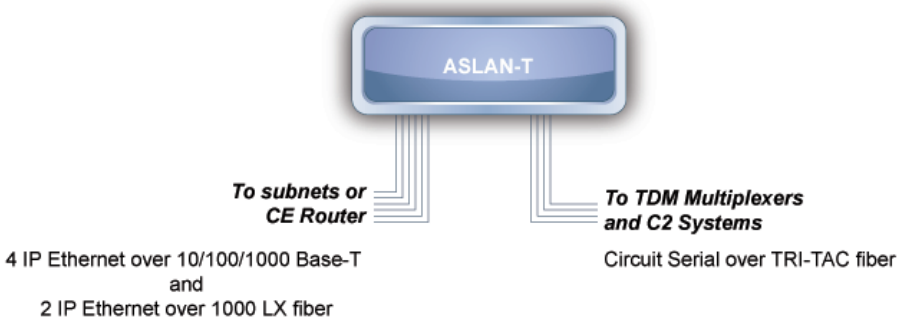
The Module supports up to 1024 service policies with 8 service queues per port, strict priority queuing for real-time services, in-bound policing, and three-color discard eligibility marking. This provides the predictable network experience associated with circuit technologies.

PacketAssure technology also offers features to simplify operation of the product. The DSCP mode automatically sets up policies to implement the GIG/NCID T.300 DSCP Guidelines. Experts can predefine and store service policy templates and class of service profiles that operators invoke from a library when a change in mission requires it.

The ASLAN-T features powerful, non-blocking VLAN switching with microsecond latency. Delay of synchronous data can be controlled with link buffering that can be configured to match the variable delay requirements.

The ASLAN-T Module is easily integrated with existing systems to improve the granularity of service and users' network experience. And operators will appreciate an user interface that simplifies implementation of Unified Capabilities.

Ultra ELECTRONICS



Description	Quantity	Connector Type	Data Rates
Rear Tactical Panel Ports:			
ASLAN Ethernet copper ports	4	Tactical RJ-45	10/100/1000 Base-T
ASLAN Ethernet fiber ports	2	TFOCA II or HMA	1000 Base-LX
ASLAN Serial fiber ports	2	TFOCA II or HMA	N x 8 Kbps from 16 to 18,840 Kbps
Additional Tactical Ports			
PAiQ Station Clock In	1	BNC	1,5, 10 Mhz - RS-422,TTL, Bipolar
CV-MCU2 Station Clock In	1	BNC	1,5, 10 Mhz - RS-422,TTL, Bipolar
CV-MCU2 Management	1	RJ-45	RS-232 9600 baud
PA iQ Management – Terminal	1	RJ-45	RS-232, rates to 115,200 baud
PA iQ Management – Ethernet	1	RJ-45	10/100 BASE-T
Aux. Power Out (2A max)	1		
Ground Lug	1		
Surge Protection			
Power	15 KA for 8/20 microseconds		
RJ-45 Connectors	20 KA for 8/20 microseconds		
System Specifications			
Size	23" x 16.5" x 34.5"		
Weight	90 lbs. approx.		
Power (Max)	210 Watts		
Voltage Range	90 - 130 / 180 - 264 VAC		
Frequency Range	47 - 63 Hz		

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