

TimeKeeper® Grandmaster Second Generation



Features	TK-GM2	
Time protocols	NTP server	Standard
	NTP client	Standard
	NTP requests/second capacity with hardware time stamping	40,000+
	PTP Server/Grandmaster/Boundary Clock (multiple domains, concurrent multicast, hybrid, unicast, V1/V2, per domain sync frequency)	Standard
	PTP multiple domains, concurrent multicast, hybrid, unicast, V1/V2, per domain configurable sync frequency	Standard
	Real-Time Failover from GNSS to multiple PTP and/or NTP network sources, local oscillator and other time sources	Standard
	TimeKeeper SourceCheck real-time PTP/NTP/GNSS/other cross-check and failover	Standard
	Real-Time Client Monitoring and Alerting for PTP and NTP	Standard
	Real-Time Network Map shows all clients and sources, one way delays and other metrics/data	Standard
	Per-Source logs, analytics, and alerting	Standard
Clock and GNSS	Multi-Constellation 72-channel GNSS receiver	Standard
	Concurrent GPS/GLONASS/Galileo/BeiDou/SBAS constellation support (up to 3 at any time)	Standard
	GNSS Sky Map monitoring of signal strength for interference and spoofing detection	Standard
	1 PPS input/output, 10Mhz output	Standard
	Double OCXO oscillator with 4us/day holdover	Standard
	Rubidium atomic clock with 0.6us/day holdover	Option
Network and network security features	HTTPS/SSL/SSH (with disable function)	Standard
	SNMP v2/v3 (with disable function)	Standard
	IPV4/IPv6 with DHCP and static assignment with sophisticated routing support	Standard
	Access control per port	Standard
	DoS and DDoS protection and defeat mechanism	Standard
	RADIUS, TACACS+, X.509 certificates	Standard
Network Interfaces	Four 100/1000BASE-T Ethernet ports	Standard
	Two 25/10/1 Gbps Ethernet ports (6x ports optional)	Standard
	IPMI Access	Standard
	TimeKeeper Web interface	Standard
	RS-232 Console port	Standard
Hardware	Redundant hot swappable power supplies	Standard
	Redundant hot swappable high capacity storage	Standard
	High Capability Server Compute Engine for analytical capability and performance	Standard
	19 inch 1U rack mountable, standard 120v power	Standard



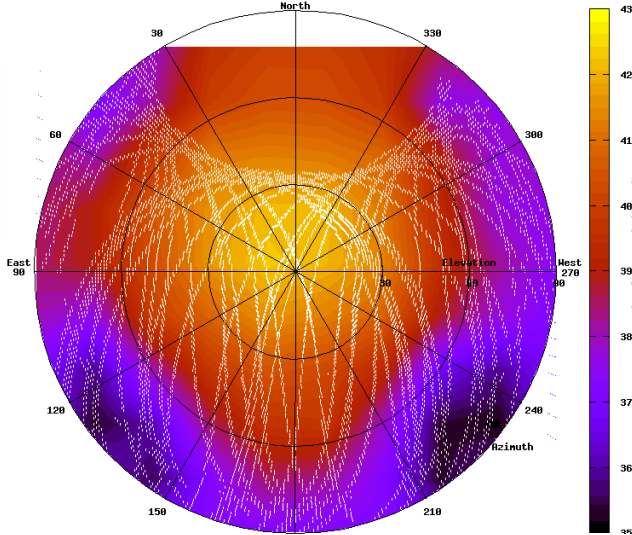
Contact: sales@fsmllabs.com or call +1512-299-5669 or visit the website www.fsmllabs.com

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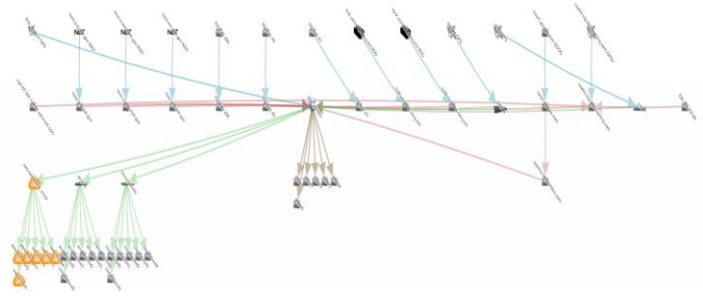


TimeKeeper GM Second Generation. Rack mountable, 19inch, 1U

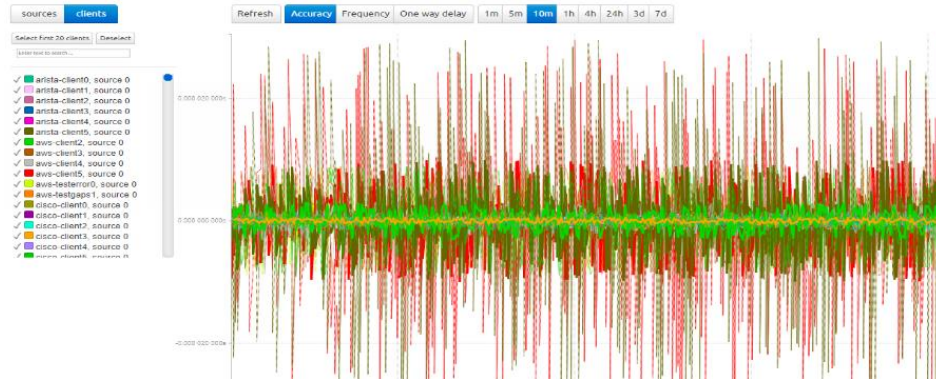
Signal Strength Skymap for Source 0



SkyMap monitors GNSS signals



TimeMap monitors end-to-end clock distribution



TimeKeeper Server monitors and alerts on client synchronization

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