

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 |



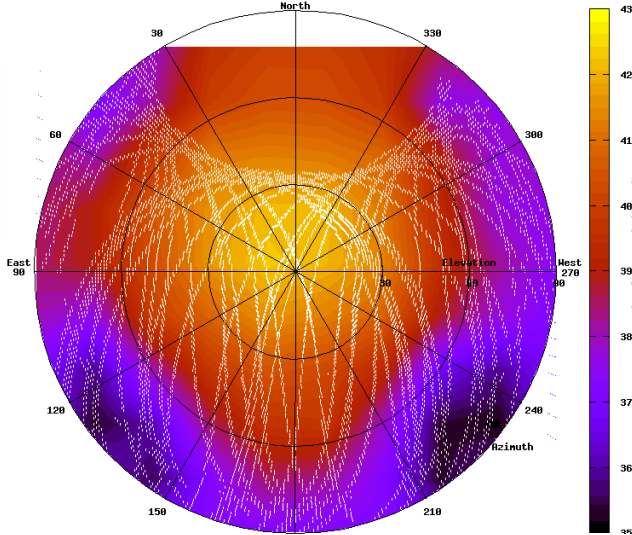
Contact: sales@fsmllabs.com or call +1512-299-5669 or visit the website www.fsmllabs.com

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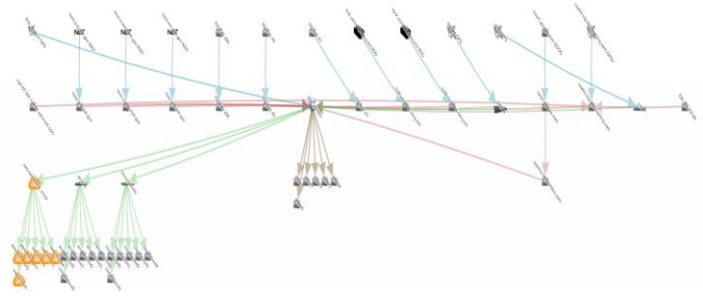


TimeKeeper GM Second Generation. Rack mountable, 19inch, 1U

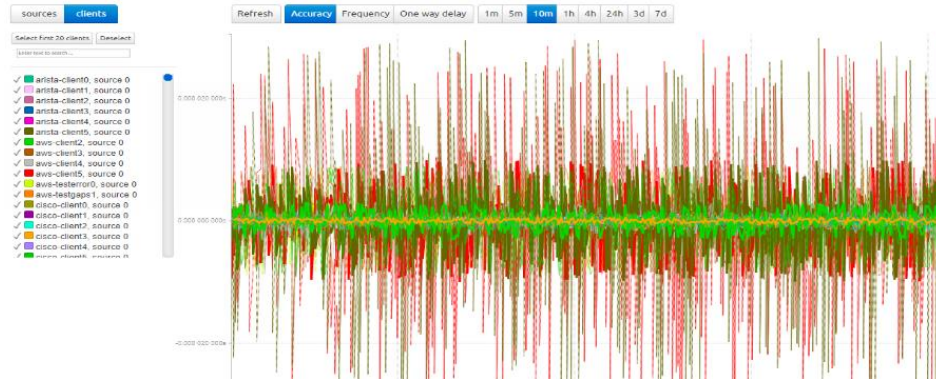
Signal Strength Skymap for Source 0



SkyMap monitors GNSS signals



TimeMap monitors end-to-end clock distribution



TimeKeeper Server monitors and alerts on client synchronization

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