

GOKK-1 MAX



Timebeat's GOKK-1 MAX has a bunch of features you might not expect

Features:

- System clock synchronisation
- Selective PHC synchronisation
- PTP+Squared root node
- PTP+Squared mesh node
- External device monitoring including:
 - Arista boundary clock metrics
 - Spectracom SecureSync metrics
- vGMC multi tenancy distribution features
- Multiple steering algorithms
- Custom step & slew limits
- Multiple filtering options inc. lucky packet
- CLI interface via ssh
- PHC smoothing
- Custom PHC offset strategies



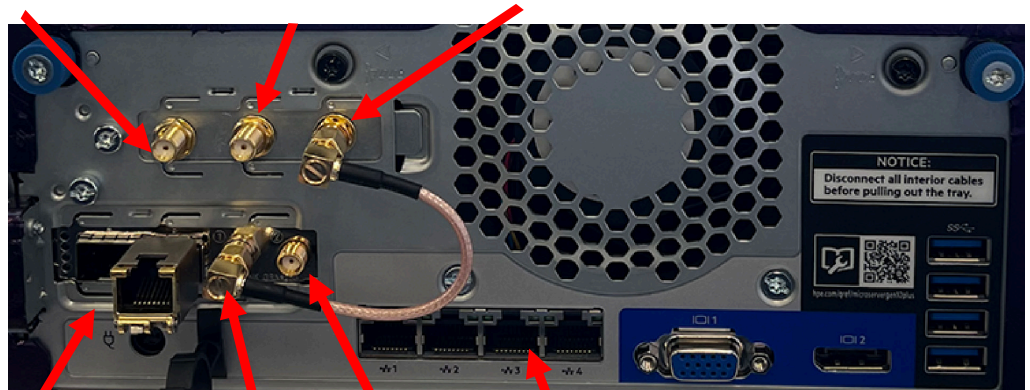
PTP+Squared: is a combination of classic PTP unicast sessions between hosts setup automatically by a peer-to-peer network. The overlay peer-to-peer network uses a distributed hash table and PubSub to perform common mesh / grid tasks:

- PTP source capacity announcement: Using efficient "PubSub" message routing
- PTP unicast setup, maintenance and teardown
- Time error dissemination upstream and downstream

vGMC technology provides multi-tenancy PTP sessions securely without data bleed or cross client data transfer, some features include:

- PTP provisioning at runtime
- Smart vLAN and VRF provisioning
- PTP templates

GNSS ANT **10Mhz OUT** **PPS OUT**



25gbps **PPS IN** **PPS OUT** **1gbps**

The Specs



TIMEBEAT

Processor		
Processor family	Intel® Pentium®	
Processor frequency	3.8 GHz	2 Cores
Processor operating modes	64-bit	
Memory		
Internal memory	8 GB	
Power supply	180 W	
Ports & interfaces		
Ethernet LAN (RJ45) ports	4	1gbps
NVIDIA Mellanox ConnectX®-6 Dx	2	100gbps
Weight & dimensions		
Width x Depth x Height	116 x 245 x 245 mm	
Weight	4.23 kg	
GNSS		
GPS	YES	
Beidou/Galileo/Glonass	YES	
Inputs		
PTP	YES	Multicast/Unicast/Hybrid Layer 2 & Layer 4 PTP Profiles: G.8275.1, G.8265.1, enterprise-draft
NTP	YES	
PPS	YES	
NMEA	YES	
PHC Device	YES	
Outputs		
PPS	YES	
PTP	YES	
10Mhz	YES	
OCXO		
Holdover	1us/8 hours	
Software		
Timebeat Enterprise	1 year license	Full Enterprise features and PTP+Squared