

GOKK-1 mini



Timebeat's GOKK-1 mini: a small device with big potential.

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



The Specs



Processor		
Processor family	Cortex-A72 (ARM v8)	
Processor frequency	1.5GHz	4 Cores
Processor operating modes	64-bit	
Memory		
Internal memory	8 GB	
Power supply	External +12V PSU	
Ports & interfaces		
Ethernet LAN (RJ45) ports	1	1gbps
Weight & dimensions		
Width x Depth x Height	200.6mm x 105mm x 31mm	
Weight	<1 kg	
GNSS		
GPS	YES	
Beidou/Galileo/Glonass	YES	
Inputs		
PTP	YES	Multicast/Unicast/Hybrid PTP Profiles: G.8275.1, G.8265.1, enterprise-draft Custom
NTP	YES	
PPS	OPTIONAL	
NMEA	YES	NMEA source via GNSS module
PHC Device	YES	
Outputs		
PPS	OPTIONAL	
PTP	YES	
10Mhz	OPTIONAL	
OCXO		
Holdover	Variable	
Software		
Timebeat Enterprise	INCLUDED	Full Enterprise features and PTP+Squared