

**Product Model** LGS2000-F-TMC10



**Product Overview** LGS2000-F-TMC10 is a multi-functional clock terminal providing nanosecond time services for coal mine applications, providing one uplink gigabit COMBO interface and downlink 5 hundred megabit electrical 2 hundred megabit optical interfaces, supporting PTP precise network time and TOD and other time output signals to meet time synchronization needs, while providing WEB, SNMP and other management modes; using a high performance CPU, supporting TSN features.

**Technical Specification**

<p><b>Exchange function</b> Meet the requirements of mining industry intrinsically safe certification High-performance CPU, 4-core 1.2G Cortex A7 architecture, 1G memory, 16GB EMMC FLASH storage space Standard Linux operating system, supporting client program implantation. Rack mountable design structure Support GPS and GLONASS satellite absolute time reference Support two-way clock input Support PTP, IRIG-B Relative time reference high stability OCXO with high performance long time keeping characteristics Support PTP, SNTP, IRIG-B, PPS, TOD and other time output Support IEEE-1588V2 protocol, synchronous Ethernet, one-step method, etc. Support traversing non-1588 network, 5-level timing accuracy within ±500ns Support unicast timing and multicast timing High performance CPU, can support TSN feature Support customizable Support GPTP (under development)</p>	<p><b>Security Features</b> Support SSH Support blacklist and whitelist</p> <p><b>Management function</b> Support CLI, SSH, WEB and other management methods Support LLDP auto topology Support SNMPv1/v2/v3, ROMON, SNTP Support TFTP/FTP upgrade, support logging and uploading Device maintenance: support port mirroring</p> <p><b>Port</b> Network interface: 5FE(100Base-T), 1GE/X COMBO, 2 x 1X9 optical modules CONSOLE port: 1×RS232 communication serial port, 115200 baud rate Grounding port: 1 TOD output: 1pc Phoenix terminal: PPS, TOD, Time-TRIG, IRIG-B SMA: 2 way GNSS input, support BD/GPS</p> <p><b>Indicator light</b> Operation indicator for Run Power indicator: SYNC Power indicator: HOLD Power indicator: PWR Interface indicator: Link/ACT, Speed</p>	<p><b>Clock function</b> Support TOD external clock input Support 1 way TOD output Support 1-step method and 2-step method Support unicast and multicast timing modes Support normal clock, boundary clock, transparent clock (E2E, P2P) and other working modes Support transmitting non-1588 network function Timestamp accuracy: &lt;=8ns Support 2-way GPS input Support 2-way clock measurement function</p> <p><b>Power</b> Input voltage: 18-36V DC power input Power: &lt; 4W</p> <p><b>Environment</b> Operating temperature -20℃ ~ +70℃ Storage temperature -40℃ ~ +85℃ Relative humidity 5-95% no condensation</p> <p><b>Quality Assurance</b> MTBF: 360,000 hrs Warranty: 5 years</p> <p><b>Structure</b> Dimensions 40mm×125mm×142mm(W×H×D)</p>
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