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TTESwitch A664 Lab

24+1 port Gigabit/s Deterministic Ethernet switch for rapid system development

TTESwitch A664 Lab flyerPDF 150,47 KB

The TTESwitch A664 Lab supports multi-environment development efforts for hard real-time operations in distributed systems. The Deterministic Ethernet switch enables the design of highly dependable systems with focus on high availability, reliability, integrity, security, maintainability and safety.

With the unique ability to support three different traffic classes (IEEE 802.3, ARINC 664 part 7, SAE AS6802) on one physical infrastructure, it is the optimal switching solution for a large variety of application areas. Other advanced features include 1 Gbit/s full-duplex speeds, flexible physical layer configuration and extended environmental ratings. Furthermore the switch provides the full range of all technical functionalities of TTTech's certifiable series production switches.



One Switch – Three Standardized Traffic Classes

The TTEthernet technology implemented in this 24-port switch is a fault-tolerant real-time communication protocol for safety-related systems. It allows for convergence of standard Ethernet, ARINC 664 part 7 and time-triggered traffic in parallel on one physical infrastructure. Further unique features include a fixed latency and transmission jitter in the sub-microsecond range and unmatched bandwidth efficiency while maintaining full determinism (up to 95% utilization of available network bandwidth).

Key Benefits

- 24+1 full-duplex Ethernet ports (6 x 10/100/1,000 Mbit/s; 18 x 10/100 Mbit/s; 1 x Monitoring Port)
- Flexible physical layer configuration (copper & optical fiber)
- Three configurable traffic classes
  - Standard Ethernet traffic (IEEE 802.3),
  - Rate-constrained traffic (ARINC 664 part 7) and
  - Time-triggered traffic (SAE AS6802)
- ARINC 664 part 7, 665, 615A, SNMP, TFTP and ICMP fully supported
- 100% identical technical feature set of corresponding certifiable TTEthernet series production switches
- Operational under temperatures from -40 °C to +70 °C and humidity levels from 25% to 90%
- Jitter configuration 0 – 10.24 ms (10 us granularity)
- TMS 570 CPU for management functions
- Network-level configuration tools available
- Table top setup or 19″ Rack mountable

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