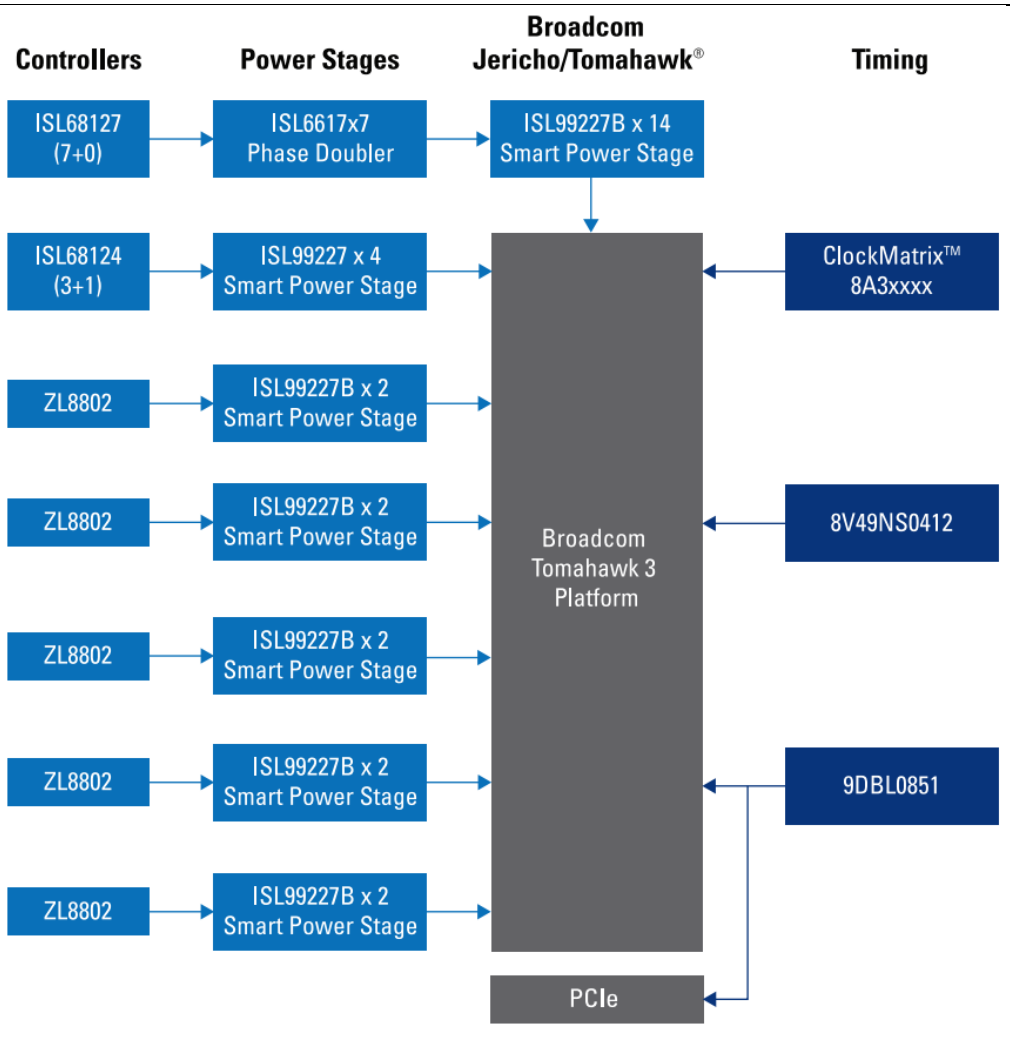
Title	Wireline Infrastructure Computing
Intro	Our timing and power solutions reduce component count and logistics for applications such as 10G-400G Ethernet switches, enterprise core and edge routers, optical transport networks, packet transport networks and access network equipment.
Overview	With demanding power and performance requirements, wireline infrastructure computing elements are placing increasingly difficult demands on power and timing solutions. The combination of high performance and specialized timing along with a broad portfolio of power products addresses the needs of these modern systems. Timing requirements are especially challenging in the latest wireline equipment. Solutions offered to meet these challenges include the industry's best and most flexible support of SyncE/IEEE1588 providing a single chip synchronization solution to reduce component count and logistics. Typical applications include 10G-400G Ethernet switches, enterprise core and edge routers, optical transport networks, packet transport networks, and access network equipment. Timing Key Features: - High Performance flexible synchronization and I/O features provides centralized timing solution to ease design - High performance with programmability allows flexibility in addressing changes to design and fast time-to-market - Configurable DPLL bandwidth for jitter attenuation optimizes device fit to various design needs – portable design - Low Power HSCL interface allows small footprint and reduces board utilization - All products are standards-compliant and proven on leading reference designs
Block Diagram	

	Controllers Power Stages Timing Phase Doubler Smart Power Stage
Recommended Products	

Products	**Description**
Digital Multiphase Controller	
ISL68127	Digital Dual Output, 7-Phase Configurable, PWM Controller with PMBus
ISL68124	Digital Dual Output, 4-Phase Configurable, PWM Controller with PMBus
Digital PWM Controller	
ZL8802	Dual Channel/Dual Phase PMBus ChargeMode Control DC/DC Digital Controller
Synchronous Driver for Multiphase PWM	
ISL6617	PWM Doubler with Phase Shedding Function and Output Monitoring Feature
Smart Power Stage	
ISL99227	Smart Power Stage (SPS) Module with Integrated High Accuracy Current and Temperature Monitors
ISL99227B	Smart Power Stage (SPS) Module with Integrated High Accuracy Current and Temperature Monitors
Clock Generator	
8A34 Family	ClockMatrix™ multichannel digital PLL
8V49NS0412	FemtoClock® NG 12-output clock generator
PCI Express Clock Buffer	
9DBL0851	8-output 3.3V PCIe zero-delay buffer

Meta Description	Wireline infrastructure computing solutions for 10G-400G ethernet switches, enterprise routers, and optical or packet transport networks applications.
Keywords	wireline infrastructure computing, 10G-400G ethernet switch, enterprise core router, enterprise edge router, optical transport network, packet transport network, SyncE, IEEE1588