

## Rugged multiport custom Gigabit Ethernet Switch



### BUSINESS REQUIREMENTS



To design and develop a Rugged multiport custom Gigabit Ethernet Switch



Develop the hardware and customize the firmware/application to suit the hardware



Post-delivery and production support



### OUR SOLUTIONS



Solution based on Vitesse Gigabit Ethernet Switch, 416MHz MIPS processor supporting IPv4 and IPv6 protocols



Uses Webstax provided by chip vendor, running on eCos Operating system; Flash/configuration update through web and serial interfaces



Schematics capture, PCB Layout, Firmware/application customization, Prototype Bring up and functional tests, Thermal cycling tests, Feature verification/ performance tests



### TOOLS/ TECHNOLOGIES



OrCAD capture, Cadence Allegro WebStaX™ SDK



Rugged, Industrial temperature grade (-40 to +85 degree Celsius)



Compact form factor design with custom connector, 6-layer stack up



### BUSINESS IMPACT



Enables the customer to enter into industrial and transportation segments



Scalable due to the stackable hardware/mechanical design



Rugged design enables the usage of this device in extreme environments

## About Us

Happiest Minds, the Mindful IT Company, applies agile methodologies to enable **digital transformation** for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights. We leverage a spectrum of disruptive technologies such as: **Big Data Analytics**, AI & Cognitive Computing, Internet of Things, Cloud, Security, SDN-NFV, RPA, Blockchain, etc. Positioned as "Born Digital . Born Agile", our capabilities spans across product engineering, digital business solutions, infrastructure management and security services. We deliver these services across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India; Happiest Minds has operations in USA, UK, The Netherlands, Australia and Middle East.