



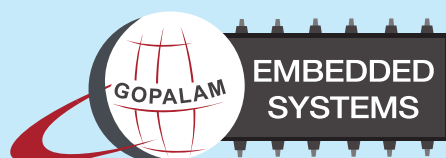
LEADING ONE STOP PROVIDER FOR EMBEDDED SYSTEMS

A S E A N

GES delivers system level solutions for embedded systems including application porting, device driver development, RTOS porting to target Systems, applications in C and C++, assembly and firmware.

At GES, we aspire to support customers with our extensive knowledge and vast experience in embedded systems to help them innovate and deliver superior embedded designs. We enable our customers to concentrate on their core business problems while relying on us to quickly recommend, and build tailored solutions for their embedded development. We cater to the a broad range of needs across various verticals like automotive, aerospace, defense, education, electronics design/manufacturing, energy, industrial automation, instrumentation, medical devices, military, semiconductor and telecom/datacom.

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GOPALAM EMBEDDED SYSTEMS

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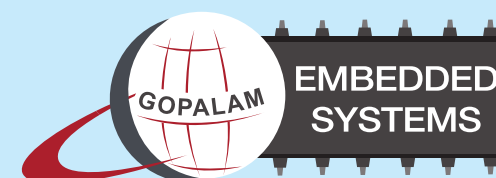
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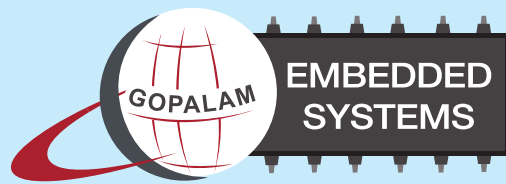
GOPALAM EMBEDDED SYSTEMS

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GES together with the ESA Group offers an ecosystem of highly integrated hardware and software embedded solutions.

Model Based Design Prototyping Kits IoT/IIoT
Embedded Linux SBCs JTAG debuggers
Connectivity Solutions EtherCAT Linux Debugging
Multi Core Debugging **TOOLS** Flashers TMI
Software Testing **ECOSYSTEM** Battery Management
Compilers Embedded Middleware
Protocol Analyzers RTOS Boundary Scan Tools
Storage Emulation Industrial Automation
Engineering Academic Solutions Embedded Security
High Performance Power Supplies Bluetooth Automotive Ethernet

Our ecosystem of synergetic tools holistically support the entire development lifecycle of embedded systems from Design, Development, Debugging to Deployment.



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**LEADING
ONE STOP
PROVIDER FOR
EMBEDDED
SYSTEMS**
ASEAN

PRODUCT PORTFOLIO

SOFTWARE

COMPILERS AND IDE

ISO 26262 certified
C/C++/Rust compiler

C/C++ compiler for
ARM Cortex A/M and
RISC-V

C- cross compiler,
Assemblers, IEEE-695,
H/W debuggers,
ST & NXP

RTOS AND MIDDLEWARE

POSIX compliant,
Microkernel,
ISO 26262 ASIL D

PXROS-HR SIL-3,
Qkit

IEC 61508 SIL 3
compliant, safe RTOS

Bluetooth, WiFi:
Protocol stacks,
Debuggers

DEBUGGER

In-circuit debugger -
ARM Cortex, NXP, STM

SOFTWARE QUALITY TOOLS

Deep Static Code
Analysis, C/C++, C#,
Java, Rust, Python,
etc, ISO 26262

Static Model Analysis,
Quality Monitoring,
Model Improvement,
ISO26262

Code Coverage for
C/C++ and Target,
ISO26262 Qkit

Embedded Software
Testing - MiL, SiL, PiL,
HiL, ECU, In-Vehicle
Testing, ISO 26262

HARDWARE DIAGNOSTICS

Solution for testing
populated printed
circuit boards

VEHICLE COMMUNICATION DIAGNOSTICS

CAN, CAN-FD, LIN;
CAN Analyzer;
Diagnostics

Automotive Ethernet
and Std Ethernet Test
& Monitoring Solution

Automotive Ethernet
Converter, Capture,
Gateway, Switch,
Fleet testing

ANALYZERS, DEBUGGERS & PROGRAMMERS

PROTOCOL ANALYZERS & STORAGE EMULATORS

DSO, Logic Analyzer,
Protocol Analyzer

Automotive Ethernet
and Std Ethernet
Protocol Test and
Monitoring Solution

NVMe Storage
upto Gen6

PCIe upto Gen6

Storage
Adapters and
Cables

HSR/PRP/PTP/TSN
Switches and
Routers

Bluetooth
& WiFi

DEVICE PROGRAMMER

In-circuit Gang
Programmers for
ARM, RISC

High Speed
Production Socket
Programmers

CONNECTIVITY SOLUTIONS

EtherCAT Software:
Master, Slave, Diagnostic

IoT Controller, Remote
I/O, Industrial Gateway

Interface
converters

CAN, CAN-FD, LIN; CAN
Analyzer; Diagnostics

Automotive Ethernet
- Converter, Capture,
Gateway, Switch,
Fleet testing

INDUSTRIAL AUTOMATION SOLUTIONS

EtherCAT Software:
Master, Slave, Diagnostic,
Hypervisor

EtherCAT Master and
Slave H/W Modules

Linux ARM IPC, SBC, IoT
Controller, Remote I/O

Industrial DAQ, Loggers,
M/c Vision, Signal
Converters

Rugged Industrial SBC,
Computers, Ethernet
switches, I/O

Synchronous and
Asynchronous
communication H/W

HSR/PRP/PTP/TSN
Switches and Routers

Industrial computers,
Ethernet serial servers,
IoT Hardware & Software

AI-ready Computing
Systems, SBC, Fanless
Embedded Systems

HARDWARE

TEST & MEASURING INSTRUMENTS

DSO, Logic Analyzer,
Protocol Analyzer

BMS Testing,
Battery Emulation,
Smart Logging,
Communication
Modules

IR based BGA
Rework station

POWER ANALYSIS

Devices operating
between 0.8V to
12VDC

Hot Plug Storage, EV,
AC Mains Generic
Low Voltage

SEMICONDUCTOR COMPONENTS

Connectivity,
iEthernet,
Cortex-M+TCP/IP,
Serial-to-Ethernet,
WiFi

USB Solutions

EVALUATION BOARD & DEVELOPMENT KITS

Embedded Modules
and Systems - ARM,
x86, PowerPC

EDUCATIONAL TOOLS

Modular Smart
Motion Devices,
Sensors, 4/6 DoF
Robotic Arms,
Control System

Ready-to-use
kits for
Embedded
projects

Evaluation
Boards &
Development
Kits